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OCTOBER 18, 1930.

Vol. CXIII.



MEGGESON'S

IODISED THROAT LOZENGES

A POPULAR LINE AND A BIG SELLER.

WHOLESALE

5/6 per doz. net

8¹/₂d.

0/8

ogu.

" " "

1/3

MEGGESON & Co., Ltd., LONDON, S.E.16

Established 1796, in the Reign of King George the Third

Of

30 cc.

SODIUM MORRHUATE 5% and 10%

Specially Prepared for the Treatment of VARICOSE VEINS

Supplied in rubber-capped phials containing 5 cc., 10 cc. and 30 cc.

MAY & BAKER, LTD.

BATTERSEA - LONDON, S.W.11

A business 'built SOLID'

THE Pepsodent business has been 'built solid.' Right from the start a steady, unwavering policy has been followed — a policy alike in sales and advertising. Never has there been any "stunt" selling of Pepsodent. No special offers — no panicky loading up of stocks.

Never has there been any "stunt" advertising of Pepsodent. Steadiness, regularity and progressive selling have been the avenues of Pepsodent development — the pillars of Pepsodent strength.

Year by year the popularity of the product has increased. Year by year has the advertising effort been powerful, steady and regular. And so, to-day Pepsodent enjoys the position as a leader in its field.

New tooth pastes have come with a flourish of trumpets — many of them have gone. Some die slowly. But Pepsodent goes on with continuous success — 'built solid.'

You can do no better than pin your faith to such a product. Popularity of demand; powerful advertising and a generous profit combine to make Pepsodent an ideal selling proposition. Tie up with Pepsodent. Show it regularly. Get our latest display — now!

Our terms are not conditional on your purchase of other items. By handling

ONE

line only you make a clear profit



Pepsadent

The Scientific Dentifrice

The Pepsodent Co., Dept. 280, India House, 8, India Street, London, E.C.3

THE ALTRO

COMBINATION SHOWCARD AND SHOWCASE.....

IS GIVEN, ABSOLUTELY FREE OF ALL CHARGE, WITH ORDERS FOR AN ASSORTMENT OF TWELVE TABLETS, TO THE VALUE OF 55/-

TO OBTAIN THE ALTRO all you have to do is to send us the following small order, or one to the same value made up with any other suitable

assortment.

Fill in your Retail Prices	Tablets	@	s.	d.
I doz. T79	Ammoniated			
	Quinine, dr. 1 5	5/9	5	9
1 ,, T83	Aspirin, gr. 5 3	3/9	3	9
1 , T14	Cascara Sagrada, gr. 2	3 6	3	6
1 ,, T69		4/3	4	3
1 ,, T90	. '	4 9	4	9
1 ,, T124	Indigestion	4/6	4	6
1 ,, T176	2	5/6	5	6
1 T181	Ouinine and			
,,, 110	Phosphorus, 36's	5/0	5	0
1 ,, T72 (6/3	6	3
	Regulators	- / -		
,,, 1110	(Phenolphthalein, gr. 2)	4.9	4	9
1 T44		2/9	2	9
		4/9	4	9
	•	£2	15	6
All 2) s uniess	otherwise stateu.	3-4	10	



The case and goods will be delivered carriage paidh ome.

The goods bear YOUR name and address, advertising YOUR Pharmacy, YOUR service, and securing repeat orders for YOU. YOUR name appears in bold letters at the top, YOUR own wording (if desired) at foot.

DAILI MOUTH WASH

A HUNDRED PER CENT. PROFIT MAKER!

The general public is rapidly realising the need for oral hygiene—DAILI MOUTH WASH, a perfectly up-to-date, pleasantly flavoured Disinfectant—meets this new demand.

Recommend this Mouth Wash as a preventive of food decay in the mouth during the night.

Price 6/9 dozen

ARTHIUR HECOX & COILHD Menufacturing Chemists

NEW



MADE FOR THE MILLION USERS OF THE MYATT

A million users of the famous Daymark Blade have waited for the Daymark Razor Set. Here it is, as unique as the Daymark Blade.

This beautiful Set, heavily made, handsomely cased, and possessing many exclusive features, is extraordinary value for money at the popular price of half-a-crown.

Big advertising is announcing this new introduction. All Wholesalers stock the new Daymark Razor Sets as well as Daymark Blades. Don't miss Sales, send your order to-day.

Write us for attractive display material.

MYATT DAYMARK RAZORS AND BLADES ARE MADE
IN ENGLAND

5 EXCLUSIVE FEATURES

- 1 SOLID BAR CHIN GUARD. Glides over the skin like silk. NO sharp prongs to cause soreness.
- 2 GUTTER CHANNEL prevents lather clogging under razor edge.
- 3 POLYGON PIPS hold blade in true parallel to GUARD.
- 4 HEAVY RAZOR HEAD makes easier shaving.
- 5 MASSIVE HANDLE improves grip.

COMPLETE OUTFIT FOR

Includes Daymark Razor, with one Myatt Daymark Blade in metal blade box, complete in thin leatherette snap-lid case, velvet lined.

Retail Discount 25%



MYATT

DAYMARK RAZOR SETS

Sole Manufacturers: W. J. MYATT & CO. Ltd., Argent Works, Birmingham

MANUFACTURERS!

DO TRADERS
TELL YOUR
TRAVELLERS

OM 00

THEY DO-UNLESS YOUR GOODS ARE ADVERTISED

RAVELLERS' reports, when orders can't be got, read "No demand." Words full of dangerous import. Ominous, if one reads them rightly. If something is not done to alter them the worst may happen to your business. Traders will not buy goods these days unless there is demand for them. Adver-

tising can make millions each day insist on your goods in the shops. When that happens you're independent of Wholesalers' whims, Retailers' indifference. You own your business, sell at less cost to your-

SEND FOR THIS BOOK This Brochure describing the Gordon & Gotch Advertising Service in detail will be sent free to responsible executives applying on their firm's notepaper. Send for your copy to-day.

self, make bigger sales and better profits. ADVERTISE! and start right—consult G & G who know advertising and how it can best be used to solve your selling problems.

GORDON & GOTCH LTP

GORDON HOUSE 75-79 FARRINGDON ST. LONDON, E.C.4

WINTER PACKED GOODS

CONSULT US BEFORE BUYING

KEEN QUOTATIONS ALWAYS

Extract Malt & Cod Liver Oil

Cod Liver Oil

Camphorated Oil

Chillie Paste

Cough Mixtures (Six Varieties)

Embrocations (New "Stadium" Brand)

Eucalyptus Oil

Ginger Wine Essence

Glycerine & Rose Water

Cold & Influenza Mixture

Raspberry Vinegar

Rubbing Oils

GOOD SHOW MATERIAL SUPPLIED

Own Name Printing a Speciality.

A. de St. DALMAS & Co., Ltd. LEICESTER.

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A free advertisement for YOU throughout 1931 - in hundreds of homes

Send two slip labels now with your order for the new revised edition of Kay's Home Doctor. This popular favourite is now in print, huge quantities have been ordered, but early application is essential if you are to have your supply, printed with your own name and address, in time for the New Year.

your own name and address, in time for the New Year.

Remember—

KAY'S HOME DOCTOR

costs you nothing

Write to-day to SALES MANAGER

YOUR NAME

HERE

KAY BROTHERS LIMITED, Stockport

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JOHN THOMPSON

(Wholesale Druggists 1921) LIMITED 27 - 35 DUKE STREET, LIVERPOOL

Sole Agents: SAND'S LIVER SEEDS

LOGAN'S LUMBAGO LINIMENT DURKEE'S ASTHMA CURE

DURKEE'S GREEN MOUNTAIN OINTMENT

Wholesale Distributing Agents:

VALENTINE MEAT JUICE HIMROD'S ASTHMA CURE

Telegraphic Address DRUGS, LIVERPOOL

'Phone 1434 ROYAL (5 lines)



On Nov. 2nd. large spaces have been taken in the following news-

Papers:—
THE SUNDAY DISPATCH
THE SUNDAY EXPRESS
THE PEOPLE

THE SUNDAY PICTORIAL THE SUNDAY GRAPHIC

COW & GATE FEEDERS

Their special construction gives baby his food pure and clean in a steady flow exactly adapted to his sucking power. He can't pull off the Cow & Gate patent "Gripon" teat.

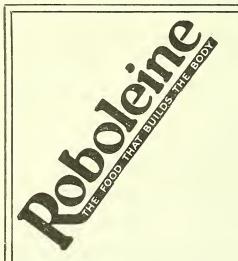
COW & GATE CHOCOLATE MILK "Nature's Tonic Beverage." Full Cream West of England Milk, the finest chocolate and other vitalising ingredients in perfect proportions.

COW & GATE RUSKS Possess exactly the resistance necessary to harden the gums and develop the jaws and teeth, and is of unique shape which prevents Baby getting large pieces into his mouth.

COW & GATE, LTD.

GUILDFORD, SURREY

BC BP



AUTUMN IS HERE. WINTER IS AT HAND; TIMES WHEN EVERYONE NEEDS ROBOLEINE.

SPECIAL WINDOW DISPLAY OFFER

IF YOU ARE NOT STOCKED WRITE FOR TERMS TO

OPPENHEIMER SON & Co., Ltd.,

HANDFORTH LABORATORIES, CLAPHAM ROAD, LONDON, S.W.9





The National Advertising Campaign for Penetrol commences in November

As a result of the remarkable selling success of Penetrol Brand Inhalant a forceful Advertising Campaign on its behalf will be launched next month. It will be up to You to collect the profits from the many new customers who will demand Penetrol.

Penetrol sets up a new standard. It is a compound mentholated lavender which has a very pleasant odour and people can thus use it anywhere without causing an objectionable smell. Find a regular place for Penetrol in your window displays and make more money....



It is by concentrating on products of quality such as Penetrol which enables the ambitious Pharmacist to improve and increase his business each year, knowing that he is building up on a firm and solid foundation. Sell the product which is in big demand.



Display Penetrol in your window and on your counter. Striking showmatter is available which will link up Your Pharmacy with the advertising and convince customers at the point of sale. It's a great opportunity for you to make more money this winter season.

Be prepared. Look to your stocks and see that you are in a position to pocket the big profits which this forceful Advertising will create





FIRST OVER 60 YEARS AGO FIRST TO-DAY

SOUTHALLS

TRADE 44 177 (Regd.

COD LIVER

OIL

'BOTTLED SUNLIGHT' is officially certified after ACTUAL

FEEDING TESTS
in the Pharmacological Laboratories of the Pharmaceutical
Society, and is guaranteed rich
in Body Building and Nerve
Nourishing Vitamins.

Packed in Amber Coloured Ovals, each bearing copy of Official Vitamin

CERTIFICATE

Minimum PRICES TO RETAILERS

Retail Price 6 doz. 8 oz. 12 doz. 8 oz. or equivalent 6/3 doz. 4 oz. fluid 6/9 doz. -/10¹/₃ $6/6 \, \mathrm{doz}$ 9/9 ,, 1/4 10/3 ,, 10/- ,, 17/- ,, 2/6 16 ;, 18/-17/6 33/- ,, 32/- ,, 4/6 9/- per gallon in W. qts. 12 W. qts. 8/9 gall. 36 W. qts. 8/6 gall.

Subject to 23% dis. on payment before 15th of month following invoice date.

Southall Bros. and Barclay, Ltd., Birmingham

Maw's Page



The results of our efforts are now collected in our Show-rooms at Aldersgate Street and we have no hesitation in recommending the enterprising pharmacist, who sets out to make the most of the business opportunities which the Christmas Season offers, to pay us a visit at the earliest possible moment. Don't delay!

There are pharmacists who have learned that a visit to Maw's Showrooms at this time is one of the most profitable things that can be accomplished in the whole round of the business year. We invite you to profit by the experience of these men. We urge you to look over your arrangements for the next week or so and to fix a time—the earliest possible moment—for your visit to Aldersgate Street. That visit will go a long way towards ensuring the success of your Christmas Season. Incidentally, it will help you along the road to future prosperity, for, apart from Christmas goods, there are always new lines, new ideas, and new selling methods worth seeing at Maw's.





Adeps Benzoatus Adrenalin Amylopsin Beef Juice* Carminex Catgut* Cerebrinin Corpus Luteum* Diastase (Animal) Digestive Ferments Duodenin Enzumes* Galactis Hæmoglobin Insuluse* Lactuted Pepsin Lecithin Liver* Lymphatic Mammary Mam-Ovarian Mam-Placenta Meduphites Multigland* Myelin Orchitic Ovuriun Whole Gland* Ovariun Residt e* Ovo-Testis* Ovo-Thyroid Ox Gull Pancreas Pancreutin Purathyroia* Paruthyroid Cumpound* Pepsin Peptone* Pineal Pituitary Whole Gland* Anterior Lol e* Posterior Lote* Compound*

Plucenta
Prostate
Red Bone Marrow*
Renal Cortex
Spleen*
Supra Medul'a*
Suprurenal*
Contex
Cortex

Suprarenalin*
Thromboplastin*
Thymus
Compound

I hyropothosis Thyroia* Thyro-Mangane: e* I rep.in

> *Literature uvuiluble.

CLA NOID

SUPRARENALIN U.S.P.

(Syn :- Epinephrin ... Adrenalin, etc.)

POWDER, CRYSTALS, TABLETS and Water White Boilable SOLUTION

1:1,000 and 1:10,000

Suitable for application whenever ADRENA-LIN is indicated. Does not turn pink or precipitate. Sample will be sent on receipt of professional card.

Write for Literature.



GLANOID

Concentrated Fluid Extract of LIVER

ONE OUNCE (the Daily dose) = HALF POUND FRESH WARM CALF LIVER

PALATABLE,—READY to TAKE

The only stabilised FLUID EXTRACT accepted by the Council on Pharmacy and Chemistry of the American Medical Association for inclusion in their list of New and Non-Official Remedies

Write for New Booklet

ARMOUR AND COMPANY

ARMOUR HOUSE, St. MARTIN'S-LE-GRAND, LONDON, E.C.1.

TELEGRAMS: "ARMOSATA-CENT," LONDON.
TELEPHONE: NATIONAL 2424.







EVANS' PASTILLES are the best for the Throat at all seasons of the year.

At 1/- a tin they are within the reach of all.

The remarkable piece of showmaterial shown above will be supplied free on request.

EVANS SONS LESCHER & WEBB Ltd.



PREPARE

for the

DANCING SEASON

by displaying

"BOVAL"

FLOOR GLOSS

Packed in beautifully decorated sprinkler-top containers.

> Write for display terms. £5 order carriage paid.

1/6 size

12/- doz.

2/6 ,,

20/- ,,

(P.A.T.A.)

Stocked by London Wholesale Houses.

JAMES WOOLLEY SONS & CO., LTD. MANCHESTER.



No Wax No Worry

Delightfully

fragrant

creates No

Dust





Either would pay your rent this week

1

AYRTON'S COUGH CANDY

EVERY IMITATION HAS FAILED

RETAIL 41d. qtr. lb.

Per lb. .. 11d.

28 lbs. .. 10d. 56 lbs. .. 9½d.

1 cwt, .. 9d.

Free Show Jar with first 28 lbs.

FULL WINDOW SHOW

Sample 4-lb. box post free for 3/6.

AYRTON'S LIVERPOOL

HUNDREDS

of Ayrton's Customers command a huge weekly sale of these items to people who never dream of purchasing remedial confectionery from a sweet shop.

2

DEPETER'S BLACKCURRANT AND LIQUORICE PASTILLES

Tremendous Sale

RETAIL 6d. qtr. lb.

Per lb. . . 1/3 28 lb. . . 1/2½ 56 lb. . . 1/2 1 cwt. . . 1/1½

A variety of FINE SHOW MATTER

Sample 5-lb. jar for 7/3 post free.
(Jar credited 1/- on return.)

ALSO

DR PETER'S MALT & BUTTER PASTILLES

DR. MONROE'S PONTEFRACT CAKES

Selling in every town in huge quantities. Ayrton's new methods have resuscitated this old and famous medicinal confection in favour of the Pharmacy.

RETAIL 31d. qtr. lb.

Per lb. .. 9d.

56 lbs. .. 8½d.

1 cwt. .. 8d.

FIRST-CLASS SHOWCARDS

Sample 7-lb. box post free 5/3.

POSITIVE PROGRESS

LEASE of IMPORTANT CITY OFFICES for SALE

WITH VACANT POSSESSION

342 CANNON STREET, E.C.4

In consequence of the recent amalgamation of Messrs. Morgan Brothers (Publishers), Ltd., Proprietors of "THE IRONMONGER" and "THE CHEMIST AND DRUGGIST," with The Engineer, Ltd., Proprietors of "THE ENGINEER," the offices of the three journals have been moved to new and more commodious freehold premises, which have been acquired at 28-31 Essex St., Strand, W.C.2. The lease of the entire premises at 42 Cannon Street, of which the four well-lighted upper floors have been in the occupation of Morgan Brothers (Publishers), Ltd., the Ground Floor and Basement being sub-let to the Aerated Bread Co., Ltd., is in consequence for sale. Alternatively, the four upper floors (which have also an entrance to Garlick Hill), having a total area of about 7,000 ft., would be let. The premises are in good order. Rent £2,000 per annum, inclusive of rates.

For further particulars, apply to

Messrs. FAREBROTHER, ELLIS & CO.

29 FLEET STREET - LONDON, E.C.4

or to HENRY BUTCHER & CO., 63 & 64 Chancery Lane, London, W.C.2

Lease of Imposing Offices for Sale

WITH VACANT POSSESSION

33 NORFOLK STREET - -STRAND, W.C.2

For further particulars apply to

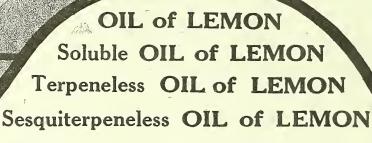
WHATLEY, HILL & CO., 24 Ryder St. St. James's, S.W.1

In consequence of the recent amalgamation of THE ENGINEER, LTD., proprietors of "THE ENGINEER," with MORGAN BROTHERS (PUBLISHERS), LTD., proprietors of "THE IRONMONGER" and "THE CHEMIST AND DRUGGIST," the offices of the three journals have been transferred to new and more commodious freehold premises which have been acquired at 28-31 Essex Street, Strand, W.C.2.

The remainder of the lease, covering a further twenty-five years, of the offices at 33 Norfolk Street, W.C.2, is in consequence for sale. This particularly well-lighted, five-storey building has an area of 8,200 sq. ft., and occupies a site at the corner of Norfolk and Howard Streets, adjacent to the Temple Station, whence Westminster and the City may be reached in a few minutes. The building is of modern construction and has a fine and distinctive elevation. It is in good order throughout. Rent £1,600. Moderate price.

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The high standard of QUALITY invariably maintained in each of these products is such as to ensure true ECONOMY in use.

If it's LEMON, ask

WHITE, TOMKINS & COURAGE LTD

REIGATE

Established in 1841



MYSORE GOVERNMENT SANDALWOOD OIL

DISTILLED FROM SANTALUM ALBUM, LINN.

This Mark is the



GUARANTEE

Trade Commissioner for Mysore in London Grand Buildings, Trafalgar Square, LONDON, W.C.2

Teiephone: Gerrard 4412.

SHOW

Shampoo NOW

DURING THIS WEEK 200,000

Packets of Shampoo will be distributed FREE to Ladies in all parts of the country, through the enterprise of the popular Ladies' Journal "MODERN WEEKLY."

SUPPORTED BY an extensive advertising campaign in National Daily and Weekly periodicals—this DIRECT METHOD of demonstrating the delightful and unique qualities of "JUNE" Shampoo will create MANY THOUSANDS OF NEW and ENTHUSIASTIC USERS.

To get YOUR share of this New Business—

DISPLAY THIS BOX ON YOUR COUNTER-NOW

SHAMPOOS PACKED IN ARTISTIC COUNTER DISPLAY BOXES OF 2 DOZ. (ASSORTED).

PRICE 4/- PER DOZ.

SAVILLE PERFUMERY LTD. WATFORD, HERTS.



37 Gray's Inn Road, London, W.C.1

Telephone: HOLBORN 9669

Price	Selling
Toilet Specialties. per doz. to Retailer	Price P.A.T.
DAT DATE A COAD 101	1/-
A complexion soap;	1/-
PROLACTUM 10/-	1/-
For the lips. PARSIDIUM JELLY 10/-	1/-
For wrinkles.	4/-
ALLACITE OF ORANGE	
BLOSSOM 22/6	2/6
A dressing eream. BORANIUM 22/6	2/6
A hair tonic,	
CLEMINITE 22/6	2/6
For a face lotion. COLLIANDUM (Powder & Solide.) 22/6	2/6
For a face tiut,	2/0
PERGOL 22/6	2/6
A deodorant. TEKKO PASTE 22/6	2/6
TEKKO PASTE 22/6	2/0
STALLAX [13/6] For a shampoo. 22/6	1/6
	2/6
JETTALINE	3/6
PHEMINOL 36/-	4/-
A depilatory.	
MENNALINE 36/-	4/-
For the eyelashes. MERCOLIZED WAX (18/-	2/-
A face cream. 31/6	3/6
STYMOL 36/-	4/-
For oily complexions and blacklicads. SILMERINE 22/6	2/6
Hair-curling fluid.	2/0
BARSYDE 22/6	2/6
Dandrufferadicator. TAMMALITE 22/6	2/6
For grey and faded hair.	•
LIQUID PERGOL 31/6	3/6
To check excessive perspiration locally BICROLIUM	2/6
For whitening the hands.	•
COCONOIDS 31/6	3/6
For figure development. SIPOLITE 18/-	2/-
A new depilatory.	•

The Products of

PARKER,	BELMO	& TV	CO.
BERRIES		36/-	4)-
LERIUM	••	45/-	5/-
NAIL POL		10/-	1/-
	BERRIES besity. LERIUM rinkles. NAIL POL	BERRIES cesity. LERIUM	cesity. LERIUM 45/- rinkles, NAIL POLISH 10/-

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPÔTS AND AGENCIES.

South Africa: LENNON, LTD., Cape Town, etc.
SIVE BROS., & KARNOVSKY, LTD.,
Ludia: ERAMIEE & SON. Bombay. Johannesburg. India: FRAMJEE & SON, Bombay. A. L. CHOUDRY, Calcutta.

New Zealand: SHARLAND & CO., Auckland and Wellington. Irish Free State: MAY, ROBERTS & CO., LTD., Dublin.

66 Why have you always got a show of BUTYWAVE SHAMPOO? >>

LL Because it makes new customers for me every day. I recommend Butywave Shampoo. They buy They like it. They thank me. They become friends. And it pays me handsomely. No other nationally advertised shampoo shows me the same profit. ??

For 137 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.





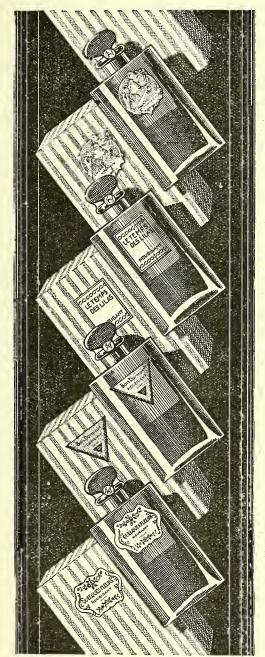
Rustless Reinforced Edges

Mustless Reinforced Edges
of Stainless Steel
treated by a secret process
are keener and give more and
better shaves than any others
on the market. The Edges
are absolutely rustless in any

Watts Mirror Blades Packed in Patent Spring Lid Nickelled Containers of 10 for 5/-Giving the Retailer 663% PROFIT on cost.

& London) Limited OHN WATTS (Sheffield Lambert Works, SHEFFIELD. Established over 150 years.

London: 18 Soho Square, W.1



LARGELY INCREASED SALES AWAIT THE RETAILER WHO IS PREPARED

HOUBIGANT INTRODUCE THEIR MOST FAMOUS PERFUMES IN A COMPLETELY NEW SERIES RETAILING AT 3/5.

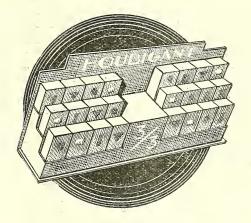
The tamous perfumes "BOIS BORMANT", "QUELQUES FLEURS", "LE TEMPS DES LHAS", "LE PARFUM IDÉAL" are now within the purchasing possibility of a larger public.

Don't miss sales. Stock with confidence and tell all your customers about it.

AN ARTISTIC STAND for 24 perfumes is supplied FREE with orders. Bisplay it in your window or counter - or both - where it can be seen, and you will sell automatically.

Don't fail seeing our Representative when he calls; he will make you an interesting proposition.

All perfumes to retail at one price 3/3

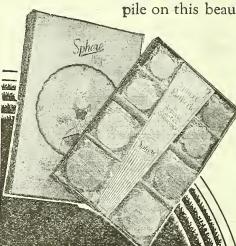


HOUBIGANT

Larden Road PARFUMERIES DE PARIS Ltd. Acton-London



A new Puff made of Sylkie-down Velour. The pile on this beautiful puff is produced in such



a way as to retain just sufficient powder to enable the user to apply it smoothly and evenly, without streaks, as is the case with coarser materials.

Supplied in assorted colours and sizes.

ATTRACTIVE DISPLAY BOX.

No. PF 50 as illustrated, 2 doz. in a box ... 6/6 per box. Assorted Six Puffs each 2", 2½", 2¾", and 3½" to the box.

Wholesale only: FAIRE BROS. & Co., Ltd., Leicester.

The hair-tinting method that's SAFE for home use

There are no poisonous ingredients in Nuctone, nothing that can possibly hurt the most sensitive scalp. And Nuctone can be used successfully by any amateur—merely by following the instructions on the box. Every week more women discover this wonderful method of restoring the normal colour to the hair—every week the demand for Nuctone increases. Nuctone tinted hair can be permanently waved just as successfully as before treatment—frequent shampooing and exposure to strong sunlight and fresh air leave it unaffected. Your customers want Nuctone!

NUCTONE

FOR GREY HAIR

GRADUAL In four shades — Nuctone and Nuctone Concentré, Nuctone Eclaire and Eclaire Concentré.

3/9 per bottle, 32/- per dozen. 6/6 per bottle, 52/- per dozen.

NSTANTER In nineteen natural shades.
4/6 per tin, 33/- per dozen.
6/6 per tin, 48/- per dozen.

Order through your usual wholesaler, or from

J. C. GAMBLES & CO., LTD.
211 BLACKFRIARS ROAD, LONDON, S.E.1

A greater success Women everywhere than ever

are using this non-greasy Vanishing Cream because it is unexcelled as a skin-protector and beautifier, and sold at a popular price. Its nationally-known name and consistent advertising are continually bringing new customers for everyone's profit and prestige.

In Opal Jars 1/3.
Aluminium handbag containers 3d., and in dainty tubes 6d. (retail).

Manufactured by

Manufactured by F. W. Hampshire & Co. (1927), Ltd. Sunnydale Works, Derby.





Christmas Gifts for you!

Two fine bonus offers you mustn't let pass...

Williams

Marbelite shaving stick

This fine shaving stick will be intensively nationally advertised during December as a Christmas Gift. There is bound to be a big demand. For your co-operation a free bonus of 1 doz. Reloads is offered on all orders of 4 dozen and over.

YOU BUY . . . 4 doz. Marbelite shaving sticks at 10/- £2 · 0 · 0

YOU SELL . . . 4 doz. Marbelite shaving sticks at 15/- £3 · O · O AND YOUR FREE BONUS

I doz. Reloads, Free, selling at 10 • 0

30/- NET PROFIT ON AN OUTLAY OF £2

No bonus on orders of less than 4 dozen.

£3 · 10 · 0

Williams 1/- Talcum Powder

(CARNATION, LILAC, ROSE, VIOLET). This Talcum Powder, generally agreed to be the finest on the market, also makes a dainty little Christmas gift. It is a money-spinner in itself—a real repeat-bringer, but we are offering an extra inducement for the Christmas Season.

EVERY 3 - DOZEN ORDER WILL BE INVOICED AS $2\frac{3}{4}$ DOZEN

EVERY 12 - DOZEN ORDER WILL BE INVOICED AS 101 DOZEN

DON'T MISS THESE TWO FINE BONUSES

Marbelite bonus from Nov. 1st.
Talcum Powder bonus starts now!

All orders should be addressed to:

Orders dealt with in rotation.

W. H. THOMAS, 50/2 UNION STREET, LONDON, S.E.1.

the original combined Cream and Powder

d VELOUTY



The advertised line that you are asked for. NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES:—Full size pot - 21/- doz. Super tube - 22/- ,, Large tube - 14/- ,, Medium tube 7/- ,, 2/-1/-Handbag tube 3/- "

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Azents: DEBACQ & HARROP,

68 Newman Street, Oxford Street, London, W.1.

Sole Distributors for
Northern Ireland: ROBERT MAYRS & CO., 43 Chichester Street, BELFAST Irish Free State: MAY ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN

PUFFS BY

Puffs, whose soft luxuriance tempt every woman to purchase-puffs, whose cool touch satisfies the most fastidious of your clientele -puffs, whose inviting charm create their own sales—these are the reasons why all who sell beauty culture aids should stock Mary Marshall Puffs.

In white and all fashionable shades to retail at prices from one shilling to four guineas.

Write for particulars and trade prices.

Mary Marshall

4, CASTLE BOULEVARD, NOTTINGHAM

To-day's most popular

SAFETY RAZOR BLAI TO FIT ALL 3-PRONGED HOLDERS BLADE

Compare with other makes THE PROFITS YOU EARN

15s. Per Gross, less 10% Discount

CASH WITH ORDER OR C.O.D. PLUS BONUS OF 2 DOZ. PER GROSS,

Orders executed on S/R basis nett.

EMMAH PRODUCTS, LTD:

14-16 LOWER CLAPTON ROAD, LONDON, E.5.



SCALES

Create Ready Sales.

Sole Agents for Great Britain:

LIONEL STUART & Co., Ltd. (Dept.)

61 Great Portland Street, London, W.1



The Greatest Merchandising Offer ever made

WE GIVE YOUR CUSTOMERS

the new Gold-plated Gillette Razor FREE with any one of these three articles— PalmoliveShavingCream, Colgate Rapid-Shave Cream and Colgate's HandyGripShavingStick.

Big space advertisements in large circulation papers all over the country, will tell them of this amazing offer.

Millions of men will want to get one of the new Gillette Razors.

IF OUR SALESMAN HAS NOT CALLED ON YOU REGARDING THIS OFFER, SEND IMMEDIATELY FOR FULL PARTICULARS.



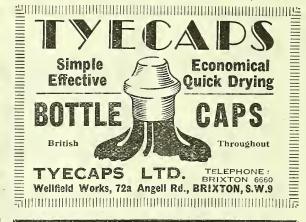
Specimen of display material supplied in connection with this offer.

COLGATE PALMOLIVE PEET LTD., 44, RANELAGH ROAD, LONDON, S.W.1.



will give that finishing touch to convince the potential buyer that yours are the goods for Christmas presents, Illustrated List, in colours, No. C.D. 1206, showing tickets, posters, window slips, and all decorations applicable to the festive season, free on mention of this journal.

DUDLEY & CO. LTD. 451 HOLLOWAY RD. LONDON, N.7. City Showrooms—65-66 FORE STREET, E.C. AT THE STATE OF TH



HELLO! EVERYBODY!



Old Man Wanie speaking—just done 10 days' work, and still 'keen' for more!

THE BLADE THAT LASTS

FREE SAMPLE ON REQUEST. Dept. C.D., WANIE DISTRIBUTING CO 89 Aldgate High Street, E.C.3. Irish Free State Agents: s. W. A. FREEDMAN & CO., Messrs. W. A. FREEDMAN & C. 21, Merchant's Quay, DUBLIN.

HURSE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to-

OSCAR SCRUTON & CO., YORK

LIGHTEST-MEDIUM-DENSE. And All Other Grades To Suit Every Purpose. CHEMICALS FOR ALL INDUSTRIES.

'Phone: Mansion House 7300.

Tel. Add.: "Levermore, Phone, London."

A. LEVERMORE & CO. LTD. ABC Codes. 110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

FRED^K.FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

TEL.: ROYAL 5094. GUMS, ARABIC and TRAGACANTH as Imported or

Finely Powdered. :: SHELLACS ALL GRADES.

BATH & TOILET SALTS

INSTANTLY SOLUBLE EVEN IN COLD WATER

Retail: 1/-, 3/6 & 6/6 P.A.T.A. Patentees & Sole Manufacturers

CHEMICALS, Ltd., FELTHAM, MIDDLESEX. SUPERFINE



FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses, Trial size 8d, per dox. 6/-1/4 size, per doz. 12/-2/6 size, per doz. 24/-3/9 size, per doz. 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2

HAIR DYE

Absolutely safe to use and shows the largest profit of any dye on the market. 1/6d, size 11/- dozen. Special terms for quantities. Obtainable from your usual wholesaler or direct from—

SINGLE, DALBY & CO. 42 OLDHAM RD., MANCHESTER

BUY AND SELL



FACE CLOTHS

FROM ALL WHOLESALE HOUSES



OUR Customers with

Artificial Dentures Will Readily BUY IT.

THOS. CHRISTY & CO., 4/12 Old Swan Lane, London, E.C.4

Selling Price

40

6 0

60

90

MANICURE BONUS PARCEL

1 doz. 6d miniature Manicure

YOUR NEXT ISITTOTHE THEATRE?

Why not make your next run up to town for a show one of profit as well pleasure? Call at our Show Room and do your buying of

Christmas Novelties

. IN COMFORT.

(F. NEWBERY& SONS LD)

CHARTERHOUSE SQUARE,

LONDON, E.C.1 Nearest Stations: LONDON,
ALDERSGATE ST. (Met.)
POST OFFICE (Central London)

Phone: CLERKENWELL 0423

Sample Size 6^D

HAIR RESTORER

6 Bottles in Case for Counter Display, 4/- PER DOZ.

1/3 size .. 12/6 per doz. 2/9 size .. 26/- per doz. PROMOTES, PRODUCES, BEAUTIFIES THE HAIR TATCHO Laboratories, 5 Great Queen Street, London, W.C.2

ON EVERY BOTTLE SOLD

The new eyebrow beautifier, "PERM BROW," has gained tbe instant approval of smart women everywhere. It is waterproof, does not rub off, is easy to apply, and lends a lasting charm.

PERM

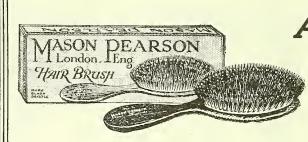
Our consistent consumer advertising has created an in-Get a stock now— every bottle gives you 1/3 PROFIT!

Obtainable from all wholesale houses or from our West End sales office :-



MIRUS LTD., 53a MADDOX STREET, W.1

Sets 14 dozen 6d Nail Polishing at 4 dz Stones 1/9 Manicure 10 6 7 0 at 14/- dz 36 only 3/6 Manicure Sets dozen 1/ Nail Varnish 24 60 40 30 dozen 1/. Cuticle Fluid 20 at 8/. dz 20 11. Hand Cream at 81. dz 14 10 only 11. Cuticle Cream 08 at 81. dz 61 74 1 only 4 0 FREE 50 8 only 6d Manicure (Miniature) Sets at 41. dz £2 74 61 Less 10% Window Display 4 7 82 50 Allowance ... 83% NET PROFIT £1.0.5 MANICURE BONUS PARCEL. Selling Price Price 2 doz. 6d Miniature Manicure 12 0 80 at 4/- dz Sets at 4/dz 2 dozen 6d Nail Polishing 12 0 80 ... at 4/- dz dozen 1/9 Manicure Sets 106 7 0 at 14/- dz 2 only 3/6 Manicure Sets 7 0 48 at 28/- dz 1 dozen 1/- Nail Varnish 12 0 80 at 8/- dz ½ dozen 1/- Cuticle Fluid 60 4 0 at 8/- dz Hand Cream 20 1 4 2 only 1/at 8/- dz £2 1 U 30 FREE dozen Cuticle Cream dozen 6d Miniature Manicure Sets 3 0 FREE £3 7 6 £2 1 0 Less 10% Window Display 4 1 £11611£3 7 6 Allowance ... NET PROFIT £1. 10.7. Order from your usual wholesaler or direct from Prichord & Constance (Mfg.) Ltd., II Broad Street, W.C.2.



A New Model MASON PEARSON HAIR-BRUSH

at a popular price!

Write us for any Window Display matter you want.

These "Small Universal"
Brushes are subject to
the same generous Trade
Discounts as other models.

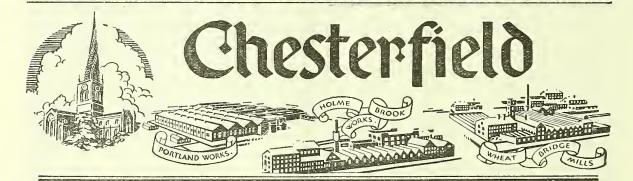
All models can be supplied through your usual Whole:aler.

WE are now making a new size "MASON PEARSON" to sell at the popular low price of 4/9. It is an ideal size for general family use, and will quickly create big sales. We have named it "Small Universal."

MAKE A GOOD WINDOW DISPLAY OF THEM. It will repay itself many times over.

MASON PEARSON HAIR-BRUSH

Mason Pearson Selling Agency, Ltd., 59 New Oxford Street, London, W.C.1



The Cown of the Crooked Steeple and the Cardboard Box Industry

Goods well packed are half sold, and easier selling means more sales. We have expert box designers who specialise in designing boxes which are salesmen as well as packages. If therefore you have any packing troubles send them to CHESTERFIELD where our 90 years experience is at your disposal.

ROBINSON & SONS. LTD. WHEATBRIDGE MILLS CHESTERFIELD MANUFACTURERS OF ROUND OVAL SQUARE AND FOLDING CARDBOARD BOXES.

900 workers are employed in the above factories.

ESTABLISHED 1880

AWARDS-London, 1881; Vienna, 1883; Calcutta, 1884; Chicago, 1893

Telegrams: "Eklips-Phone London."

Telephone: Hop 1831

For the

CHRISTMAS TRADE

UR SYNTHETIC OTTOS

("Zinyl" brand) by reason
of their enormous strength are
very economical in the manufacture
of all TOILET PREPARATIONS,
PERFUMES, etc., and we have
supplied for many years some of
the best-known houses whose names
are household words. The Synthetic
Rose especially has been praised by
all the trade journals, while our
Synthetic Neroli is excellent in the
manufacture of Eau - de - Cologne.
Inquiries are always welcome from
home and overseas buyers.

For Prices please refer to the Chemist & Druggist Diary, p. 19



QUALITY TELLS

been using a Synthetic Jasmin, but although it is cheaper it is nothing like the quality of that you have just sent."

"Verb. sap."



4 ounces: Post free, less 5% cash with order

Special prices given to large buyers

H. E. STEVENSON & CO. 122 Great Suffolk Street, LONDON, S.E.1





Extra Profits

British to the Core"

New Series. Display Features.

Send COUPON below for this New · ASPRO · Window Display





Printed in ten colours



By featuring 'ASPRO' Displays in your window you link up your store to the largest Medicine Publicity Campaign in the World

Following the success of our recent Man-Nurse and Child Display for Chemists and the many letters of appreciation re-ceived we have pleasure in announcing a new 3-piece series now ready for distribu-tion. These productions combine sug-gestion and reasons why customers should enter your store to purchase 'ASPRO.' The sooner you co-operate by featuring 'ASPRO' Displays—the greater is your opportunity of benefiting by the consumer demand created by our huge advertising campaign. Be first in the field by showing this new 3-Piece Display. Simply fill in amme and address and post to Gollin & Co. Pty., Ltd., ''Aspro'' Dept., Slough, Bucks. The displays will be despatched to you promptly.

17% Extra through buying 'ASPRO' on Bonus Terms.

The 'ASPRO' bonus on unstamped 'ASPRO' is as follows:— On a one gross order for 10's the bonus is one dozen packets; on half-gross order, ½ dozen packets. Half-gross 10's is the minimum order accepted for Bonus purposes. On a 1 gross order for 27's the bonus is 2 dozen packets, on a half-gross order to dozen packets, on a non a guarter-gross order to ground the packets and on a guarter-gross order. dozen packets, and on a quarter-gross order \(\frac{1}{2} \) dozen packets. A quarter-gross order is the minimum quantity. There is no bonus on 5's or 60's.

The conditions are that the Chemist who buys on these terms undertakes to display 'ASPRO' Advertising matter in his shop window for 1.1 days, and sell at advertised prices. As 'ASPRO' is so extensively

advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO,' but should enable the chemist's staff to make other sales to these customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., single lots 6 dozen 10's or 3 dozen 27's will qualify the Chemist.

You order as follows:—We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler, so that we may forward the order on and the Bonus will be supplied direct by us.

Ordinary prices for unstamped 'ASPRO' are as follows:—

3d. size (containing 5 tablets) 2/3 doz 6d. ,, (containing 10 tablets) 4/6 ,,

1/3 ,, (containing 27 tablets) 11/6 ,, 2/6 ,, (containing 60 tablets) 21/- ,,

Less $2\frac{1}{2}\%$ 30 days.

Note.—The 1/3 size contains two extra ... tablets. 2/6 size ten extra tablets.



'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by ASPRO LIMITED, SLOUGH, England.

Agents:

GOLLIN & CO. PTY. LTD. ('Aspro' Dept.), SLOUGH, BUCKS.

'Phone: Slough 608.

No proprietary right	is	
claimed in the method	0	splay
of manufacture or the formula.	SLOUGH,	BUCKS
ASK	SLOVE	

Oroning tor New 3.4 iece Ashir, Ashir Continues of Price above displays. COUPON for New 3.P. lece

The Sales are already Phenomenal

Introduce the 3^D WINNER COLD WATER STOCKING DYES

to your Customers



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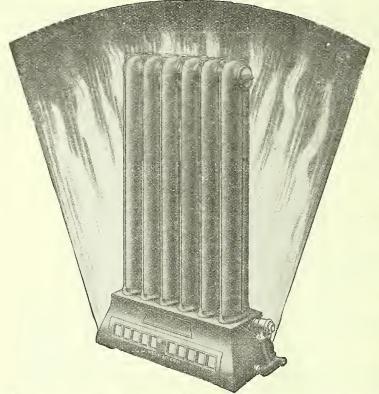
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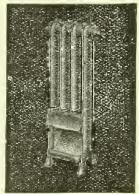
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English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Fiscal Policy

An emergency meeting of the Grand Council of the Federation of British Industries was held on October 13 to consider the report of the Special Committee appointed to ascertain the views of members in regard to the adoption of a fiscal policy which will permit of a wide extension of reciprocal agreements between the United Kingdom and the Dominions. An overwhelming number of the members are in favour of a change of system. An analysis of the voting on the questionnaire sent out by the Committee shows that

3.9 per cent. are in favour of maintaining the existing Free Trade fiscal system;

96.1 per cent. are in favour of a change. No single industrial group within the Federation shows a majority in favour of maintaining the Free Trade fiscal system.

If the number of firms voting is taken without reference to the number of their employees, the percentages

In favour of the existing system 4.5 per cent.

In favour of a change, 95.5 per cent.

Assessed in this manner no industrial group in the Federation shows a majority in support of the present

report of the Committee was unanimously adopted, and a number of resolutions were unanimously passed emphasising the necessity for a change in our fiscal system.

The Dyestuffs Act

The Association of British Chemical Manufacturers, in a memorandum setting forth the views of dyemakers on the progress that has been made under the Dyestuffs Act, states that the Act has largely succeeded in achieving its main object, and that as a consequence the country has a well-organised, technically efficient and virile industry. It is urged, however, that there is still considerable headway to make before the industry

can meet the full requirements of the colour users, secure its proper share of the export trade, and withstand unaided the intensive foreign competition and pricecutting which would result if the Act were allowed to lapse. The removal of the present protection would jeopardise the consummation of the work which it was the object of the Act to achieve, without any countervailing gain to the consuming industries which would make the risk worth while. The dyemakers, therefore, press for a further period of protection on the lines of the present Act, and, subject to safeguards to protect the British manufacturer against unfair competition, are agreeable to a modification of the procedure so that the prohibition of imports will only apply where a British maker is prepared to supply an equivalent product at an equal price.

Inquests

An inquiry at Southend, on October 6, concerning the death of Mr. Charles F. Wigglesworth, a London librarian, showed that he died from taking aspirin. It was stated that the deceased had taken 100 aspirin tablets; a verdict of "Suicide while of unsound mind" was given.

The coroner for the City of London and Southwark (Dr. F. J. Waldo) held an inquest, on October 3, on the body of Mr. H. F. Smith, chemist and druggist, East Grinstead. It was stated by the widow that Mr. Smith was taken ill on September 23, after eating mushrooms. The house physician at Guy's Hospital stated, however, that the post-mortem examination disclosed no sign of mushroom poisoning. A verdict of "Death from natural causes" was recorded.

Birmingham

Mr. and Mrs. George Cadbury have presented the Selby Oak Nursery School, Tiverton Road, to the authorities.

The May Lane Allotment Association Fruit and Flower Show was opened recently by Miss Doris Alcock, M.A., in the unavoidable absence of her father, Mr. F. H. Alcock, Ph.C., who is president.

Burgoyne, Burbidges & Co., Ltd., manufacturing chemists, East Ham, London, E.6, will exhibit a number of their products at the Midland Hotel, Birmingham, during October 20-24 inclusive (10 a.m. to 8.30 p.m.). Goods on view will include packed pharmaceutical products, toilet preparations, perfumery, Christmas novelties, surgical dressings, and druggists' sundries. The exhibition has been arranged for the benefit of many customers in Birmingham and neighbourhood who avail themselves of the regular weekly motor delivery.

Brighton

For three days last week Brighton was thrilled by a "Fête de France" and Pageant in aid of the Sussex Eye Hospital. The Pageant was a brilliant affair, illustrating every episode in French history. In a tableau representing the Coronation of Napoleon and Josephine a dignified and graceful representation of Princess Caroline Bonaparte Murat was made by Mrs. Tyler, wife of Mr. A. T. Tyler, of Parke, Davis & Co.

An exhibition is being held in the Hove Museum and Art Gallery of the work of members of the Brighton Arts Club. Among the exhibits are two pastels by Mr. Alfred Hitchens, chemist and druggist, one of "The Wetterhorn" and the other, "A Surrey Bluebell Wood." Both are charming, the Surrey picture being sold on the first day of the Exhibition.

Cardiff

The second open meeting for the Cardiff Pharmacists' silver challenge cup was held on the beautiful links of the Pyle and Kenfig Golf Club on October 12. The event is an open for chemists in business in South Wales, the cup and replica being provided by The British Drug Houses, Ltd. The day was most enjoyable, the weather being ideal for such an event. The leading score cards returned were as follows:—

T. J. Fowler (Cadoxton)	 	98 - 18 = 80
H. O. Anthony (Aberwynon)	 	87 - 6 = 81
Hyatt Jenkins (Treherbert)	 	97 - 16 = 81
C. D. Bamford	 	99 - 17 = 82
R. L. Hopkins (Barry)	 	101 - 18 = 83
A. S. Gordon (Cardiff)	 	96 - 10 = 86
J. Murray (Cardiff)	 	98 - 12 = 86
B T Nowell		104 - 16 = 88

Mr. Fowler became the winner, and was presented with the cup and replica on behalf of the Association by Mr. E. A. Ward (president). Mr. Anthony and Mr. Hyatt Jenkins divided the dozen golf balls, the prize for the runner-up, given by Mr. E. A. Ward.

During the afternoon a mixed doubles competition

During the afternoon a mixed doubles competition took place for the Torry rose-bowl. There was a splendid number of entrants, and Mr. and Mrs. Hyatt Jenkins were the winners. Scores returned as follows:

Mr. and Mrs. Hyatt Jenkins	105 - 26 = 79
Miss Jones and Mr. J. Murray	$105 - 23\frac{1}{2} = 81\frac{1}{2}$
Mr. R. L. Hopkins and Mrs. Phillips	107 - 22 = 85
Mr. Bamford and Miss Phillips	100 - 14 = 86
Miss M. Murray and Mr. Hickins	$106 - 18\frac{1}{2} = 87\frac{1}{2}$
Mr. Anthony and Miss Clements	110 - 21 = 89

The proceeds of both these events are to be donated to the Pharmaceutical Benevolent Fund.

Liverpool

The Liverpool police have warned chemists in regard to a man of dock labourer appearance who is offering raw opium for sale.

Mr. F. W. Moore, the veteran representative of Evans Sons Lescher & Webb, Ltd., has been bellringer at city churches for fifty-two years.

Mr. John Pemberton, outside manager of Brunner, Mond & Co., Ltd., chemical manufacturers, Liverpool, has retired after more than forty years' service.

Mr. John Wood, Poulton Road, Wallasey, had an unfortunate experience recently when presiding at a Masonic dinner of the Lodge of which he is Worshipful Master. The toast of "The Past Masters" was proposed by the W.M.-elect, Bro. Gleeson, who suddenly expired as he resumed his seat.

Sheffield

Taylors (Cash Chemists), London, Ltd., are to open a new business in Ecclesall Road.

The president of the Pharmaceutical Society (Mr. A. R. Melhuish) has promised to attend the dinner and dance of the Sheffield Pharmaceutical and Chemical Society, and the local branch of the Pharmaceutical Society.

Ten insurance prescriptions (eight for medicine and two for appliances) have been tested and found correct. The Panel Committee have reported that in their opinion a number of prescriptions which have been submitted to them for Radio Malt and Fehling's solution are a proper charge upon the Drug Fund. A calliper splint was also passed for payment. Chemists' accounts for dispensing during the month amounted to £2,014.

Miscellaneous

Long service award.—Mr. Arthur Hanson, senior representative on the travelling staff of the Shanghai house of Burroughs Wellcome & Co., has been presented with a gold watch, suitably inscribed, to commemorate the completion of twenty-one years' service.

Golf at Chesterfield.—The annual meeting for the Allenburys golf trophy among the chemists of Nottingham, Derby and Sheffield was held at Chesterfield recently. The winning card, "all square," over 18 holes against bogey was returned by Mr. S. Furnival (Sheffield), handicap 8, who holds the trophy for the ensuing year and receives a replica.

Window smashes.—A window at the pharmacy of Mr. R. G. Eacott, chemist and druggist, Teynham, Sittingbourne, was brcken, on October 1, by a motorcar which skidded on the wet road.—Similar damage was done recently at the pharmacy of H. A. Elliott & Co., Ltd., chemists, Fvesham, by a number of ladders coming in contact with the shop front. One of the windows at the pharmacy of Mr. L. G. Wood, chemist and druggist, Deganwy, was smashed recently by someone who threw a large stone.

IN THE COURTS.—At Marylebone Police Court on October 10, Frederick George Lewtas, M.R.C.S., of West Park, Mottingham, S.E.9, was bound over in the sum of £100 for being an unauthorised person in possession of eleven grains of morphine sulphate, contrary to the Dangerous Drugs Regulations.—At Lambeth County Court, on October 10, Colgate-Palmolive-Peet, Ltd., sought to enforce the payment of a judgment debt of fio against Hyman Jacob Denton, Brixton, S.W. Plaintiffs' solicitor said the defendant made an application to set aside the committal order on the ground that his cousin, who was then in New Zealand, owed the money. The application was dismissed, and the costs, which came to £6, had not been paid. The cousin had since paid off £5. Judge Spencer Hogg said he would make an order to pay the balance, Judge Spencer with a committal. A second summons was then proceeded with against the same defendant, who was described as the managing director of the Arcale, Brixton, Pharmacy, Ltd., Market Row, Brixton, Brixton, London, S.W., the creditor in this case being Dr. Owen Gilmore, 49 Acre Lane, S.W., and the debt being £3 178. The Judge made an order to pay in six weeks with a committal.—At Bradford Police Court, recently, Harry Bell, laboratory assistant, was sentenced to two months' imprisonment for stealing 89½ oz. of raw opium, and Fred Greaves was sentenced to nine months' imprisonment for being in unlawful possession and offering to supply (C. & D., October 11, p. 445).

—At Stamford Police Court, recently, William D. Green, drysalter, was fined 2s. 6d., with costs, for having sold a solution of lysol not duly labelled.

Irish News

Mr. S. Irwin, L.P.S.I., has opened a pharmacy at 82 Hill Street, Newry.

Mr. Herbert A. Johnston, Ph.C., Larne, was successful at the recent Fellowship examination of the Worshipful Company of Spectacle Makers; he has also been elected a Fellow of the Institute of Ophthalmic Opticians.

Dr. Michael Ryan, P.C., M.P.S.I., who has been elected vice-president of the Pharmaceutical Society of



DR. MICHAEL RYAN, P.C., M.P.S.I.

Ireland, was apprenticed to Dr. W. P. Connolly, Michelstown, co. Cork, and qualified in 1911. He was appointed dis-penser at the Peter Street Dispensary, Dublin, about ten years ago, and obtained his medical diploma (L.A.H.) in 1923. It is interesting to note that Dr. Ryan was one of the first to be appointed a Peace Commissioner in the Irish Free State; he was treasurer of the Irish Chemists' Golfing Society during the year 1927-28; became member of the Council of the Pharmaceutical

Society of Ireland in 1922, and became treasurer in 1926. Dr. Ryan took over his business, a middle-class type with a fair share of dispensing, from Mr. G. Robinson in 1912.

Mr. Denis Joseph Nugent, P.C., M.P.S.I., who has been elected president of the Pharmaceutical Society of



MR. D. J. NUGENT, P.C., M.P.S.I.

Ireland, is the proprietor of an up-to-date, highclass pharmacy in Tere-The business nure. transacted is of an extremely varied nature and includes a good amount of dispensing, photography (including trade developing and printing), veterinary and horticulture. Nugent was ticed to his father, Mr. Martin Robert Nugent, M.P.S.I., Croom, co. Limerick. After further experience in Listowel Nugent Appear passed Apothecaries' Assistants' examination, and then came to Dublin.

After a short time in Rathmines with the late Dr. W. Starkey, M.A., he qualified in 1905. He next bought a business in Dungarvan, co. Waterford, and after four years or so there he opened his present business in Terenure. Outside pharmacy, Mr. Nugent is a man of many interests, including music (he was awarded a bronze medal for a tenor solo at the Feis Coeil in 1916), gardening, fishing, and photography. He was for some years a member of the Committee of the Dublin and Provincial Retail Drug Association, became a member of the Council of the Pharmaceutical Society of Ireland in 1922, and four years later was elected to the office of vice-president.

Belfast Board of Guardians has decided to ask the Ministry of Labour to pay the Board's dispenser the fees provided by the Medical Benefits Act for the dispensing of medicines to beneficiaries.

The coroner for Belfast held an inquest on October 9 in the case of John M. Burnett, aged three, who died after eating twenty-four chocolate-coated pills which he found in a drawer in his mother's room. The pills contained a small amount of strychnine and belladonna. The coroner, in returning a verdict of death from misadventure, said that these aperient pills were in use every day, and were harmless when used as prescribed.

The funeral of Mr. Andrew Wilson, M.P.S.N.I., whose death was announced in last week's issue (p. 458), took place at Dundonald on October 8. Among those connected with the drug trade who were present were Mr. Fred Storey (president of the Pharmaceutical Society of Northern Ireland), Mr. James Dundee, Mr. W. J. Hardy, Mr. H. Todd, J.P., Mr. H. McRoberts, Mr. D. L. Kirkpatrick, Mr. J. C. Culbert and Mr. C. B. Abernethy.

Scottish News

Brevities

Mr. Andrew Dryburgh, chemist and druggist, of Accra, Gold Coast, is at present on leave in Scotland.

A grant of £59,000 towards the cost of erecting new chemistry buildings at Glasgow University has been given by the Carnegie Trust.

Glasgow

The tenth Glasgow Housing and Health Exhibition, opened in the Kelvin Hall on September 25, contains a number of exhibits of interest to the drug trade. Exhibitors include C. R. Harker, Stagg & Morgan Ltd. (Peldo), The Marmite Food Extract Co., Ltd (food preparations), Virol, Ltd. (Virol Products), Thi CROMESSOL CO. (Cromessol).

An annual golfing fixture was revived recently when the members of the Glasgow Pharmacists' Golf Club played the Glasgow Grocers' Club. Scores were:—(Pharmacists), Messrs. T. McLean, W. Rait, D. Duncan, H. Campbell, T. MacMaster, sen., and W. Seivwright, won; R. MacKenzie, halved; and J. Scott, J. Hart, J. MacBawan, J. Erasmuson, E. Allison, A. Aitken, J. McGillivray, A. Taylor, E. Blyth, D. G. Mackenzie, W. W. Wilson, T. MacMaster, jun., and J. MacEwan, J. Che twenty grocers were successful over the pharlost. The twenty grocers were successful over the pharmacists by seven games.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, October 20

Guild of Public Pharmacists, Royal Institution, Colquitt Street, Liverpool, at 8 p.m. A meeting of local hospital pharmacists has been arranged by the Guild of Public Pharmacists, to discuss the possibility of forming a local branch.

Wednesday, October 22

Manchester Fharmaceutical Association, Medical School, The University, Ccupland Street entrance, at 3 p.m. Speech day, with presentation, by Mr. E. T. Neathercoat, O.B.E., of prizes to successful students. The opening of the Woolley pharmaceutical laboratories at the University will take place at the conclusion of speech day proceedings.

National Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.I, at 8 p.m. Opening meeting. P. W. Lovell, F.S.A.. organising secretary of the London Society. on "London Squares."

Thursday, October 23

Pharmaceutical Society of Great Britain, Bath and District Branch, Red House, New Bond Street, Bath, at 7.30 p.m. Social gathering. Ladies and friends invited.

Legal Reports

A Traveller's. Restrictive Covenant .- An action to enforce a three years' restrictive covenant in a service agreement was heard before Judge Chetwynd Leech at Ipswich County Court on October 8. Plaintiffs were Stotherts, Ltd., manufacturing chemists and drysalters, Atherton, Lancs., and they sought an injunction and damages against Edward Francis Fryers, commercial traveller, 123 King Street, Great Yarmouth. For the plaintiffs it was said that the firm employed something over fifty travellers, who had different districts assigned to them. When a new traveller was engaged he was supplied with the names and addresses and particulars of his customers, and, in order to protect their trade connections, plaintiffs found it necessary to insert the restrictive covenant which they sought to impose. Defendant entered the service of the plaintiffs under an agreement of April 2, 1927, originally travelling in East Lancashire. In April 1928 his district was changed, and he was instructed to make his calls in Norwich, Yarmouth, Lowestoft, Ipswich, Harwich and Colchester. Defendant's services were terminated in May 1929, but after the termination of the service it came to the knowledge of the plaintiffs that defendant, in breach of the agreement, was calling on plaintiffs' former customers in these particular towns, and evidence to this effect was given. Mr. Thomas Henry Broughton, a director of the plaintiff firm, said that the knowledge of their customers obtained by defendant while in their employment would be of great service to defendant if he travelled for someone else in the same business. In cross-examination, the witness agreed that before defendant took over the ground the firm had no connection in Colchester. Fryers, who was not legally represented, submitted that he travelled for the plaintiffs only two years in all—one year in Lancashire and one year on the East Anglian ground and that the operation of the covenant, in tying him down for three years, was unfair. For nine months after he left the plaintiffs' service he never went on this East Anglian ground, and he considered that the interval was a reasonable one in which to permit of the plaintiffs' new traveller maintaining the ground. Replying to counsel for the plaintiffs, the defendant said that he was now working for Kuro's, who sold similar goods to the plaintiffs, but that firm had a connection in Norwich, Ipswich, Yarmouth and elsewhere before his engagement with them. He agreed that he had canvassed for Kuro's in the very same places where he had canvassed for plaintiffs, but Kuro's already had customers in those places. He had called on all Stothert's customers, but he had not arranged his journeys so that he was a few days ahead of the plaintiffs' new traveller. His Honour found that the covenant was reasonable and binding, and the plaintiffs were entitled to the injunction which they sought, with nominal damages of 20s. and costs. After further nominal damages of 20s. and costs. evidence, an order for 10s. per month was made.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

Pharmaceutical Supplies, Ltd. (P.C.).—Capital £1,250. Objects: To carry on the business of manufacturing wholesale and retail chemists and druggists, etc. The subscribers are: T. Carr and J. H. Grove. R.O.: 120 Victoria Street, S.W.I.

W. H. Jackson, Ltd. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, drysalters, etc. The subscribers are: Miss Millie Goldberg and Wm. Hughes. Solicitors: Bremner, Sons & Corlett, 1, Crosshall Street, Liverpool.

ESMONDS PHARMACIES, LTD. (P.C.).—Capital £600. Objects: To take over the pharmacy and optical business carried on at 678 Green Lane, Goodmayes. The

directors are: Mrs. M. J. Phillips and B. E. Phillips. Solicitors: Leonard Tubbs & Co. R.O.: 678 Green Lane, Goodmayes.

Mumford & Co., Ltd. (P.C.).—Capital £4,000. Objects: To acquire the business of a chemist and druggist now carried on at 4 Victoria Terrace, Kingsway, Hove, by F. Rogers. The directors are: H. G. Mumford, Jane E. Mumford, H. A. Mumford, R. G. Mumford and Lily E. E. Mumford. Solicitors: Rexworthy Barnard & Bonser, 83 Cannon Street, E.C.3.

Dogits, Ltd. (P.C.).—Registered in Edinburgh. Capital £7,000. Objects: To acquire from W. M. Burdon the business carried on by him at 12 Renfield Street, Glasgow, as "Chemel," together with the trade mark "Dogits," and to carry on the business of chemists, druggists, chemical manufacturers and dealers, etc. The directors are: J. A. Wilkie, A. Todd and W. M. Burdon. R.O.: 12 Renfield Street, Glasgow.

Celtis, Ltd. (P.C.).—Capital £1,000. Objects: To acquire the business now carried on at 17 Ormond Road, Crouch Hill, by N. E. Butcher and L. L. Livermore, as "Cellulose Products," and to carry on the business of manufacturers of and dealers in oils, paints, pigments, varnishes, etc. The directors are: N. E. Butcher, L. L. Livermore and H. W. Milner. R.O.: Brook Works, North Circular Road, Palmers Green, N.13.

John Foster (Glasgow), Ltd. (P.C.).—Registered in Edinburgh, September 23. Capital £5,000. Objects: To acquire from the representatives of the late John Foster, pharmacist, of Charing Cross, Glasgow, the business formerly carried on by him at 479 Sauchiehall Street and 10 Cambridge Street, Glasgow. The directors are: J. Foster, Mrs. Caroline I. Rodger and Mrs. E. R. Hay. Solicitors: Robertson Neilson & Co., Glasgow.

METALIN, LTD. (P.C.).—Capital £5,000. Objects: To enter into an agreement with Taylor Brothers & Cox, Ltd., of Adelaide House, King William Street, E.C.4, and to carry on the business of manufacturers of metals and derivatives thereof, cadmium, arsenic, antimony, selenium, sulphides and metallic colours in general, and dry and pulp colours, paints, chemicals. etc. The directors are: S. Cox and G. S. Bache. Solicitors: H. C. Morris, Woolsey, Morris & Kennedy, 2 Walbrook, E.C.4.

Cambrian Table Water Co., Ltd. (P.C.).—Capital £4,300. Objects: To acquire the business of mineral water manufacturers, carried on by R. O. Roberts and K. Roberts at Cambrian Works, Ruthin, Denbigh, as the "Cambrian Mineral Water Company" and the "Ruthin Soda Water Company," and to adopt an agreement with the said R. O. Roberts and K. Roberts, Mary Price, and J. E. Price, Ltd. The permanent directors are: R. O. Roberts, K. Roberts, and J. M. Davies.

CLOTABS, LTD. (P.C.).—Capital f100. Objects: To acquire from McCoy's Laboratories, Ltd., the benefit of the trade mark "Clotabs," registered in class 3 in respect of chemical substances prepared for use in medicine and pharmacy, and to carry on the business of manufacturers, sellers and distributing agents of all kinds of foods, cordials, beverages, tonics, stimulants and restoratives, pharmaceutical, etc. The directors are: P. McCoy, E. A. Field, W. J. Fitzgerald and W. J. Rudderham.

Tennants Consolidated, Ltd., was registered as a "public" company on September 23, with a nominal capital of £200. Objects: To acquire, deal with and turn to account shares, stocks, debentures, debenture stock, scrip, bonds, obligations, securities, policies, book debts, claims and choses in action of all kinds, and to carry on the business of chemists, druggists, drysalters, importers and manufacturers of and dealers in pharmaceutical, medicinal, industrial and other chemical preparations, etc. The subscribers are:—P. F. Kinsey,

C. W. Foster, G. T. Weekes, F. J. W. Gurney, 18 Austin Friars, E.C.2, solicitors, and three others. Solicitors: Slaughter & May, 18 Austin Friars, E.C.

Farrow & Jackson & Purdy, Ltd. ("public" company).—Nominal capital, \$f100,000. Objects: To acquire and hold the whole or any portion of the shares, debentures, debenture stock and other interests of or in Farrow & Jackson, Ltd., and a company formed or to be formed and known as the Purdy Patent Machinery Company (1930), Ltd., or some similar title, to adopt an agreement with S. A. Screeton and A. H. Smith, and to carry on the business of brewers, bottlers, wine and spirit merchants, engineers, etc. The subscribers are: G. Conrad and A. D. Gardner, and five others. Solicitors: Clifford-Turner, Hopton & Lawrence, \$1-7 Gresham Street, E.C.2.

BEECHAMS PILLS, LTD., announce an interim dividend of $7\frac{1}{2}$ per cent., less tax, on the deferred shares.

The British Drug Houses, Ltd., have declared an interim dividend of 2 per cent. on the ordinary shares, payable on November 1.

Benger's Food, Ltd., have declared an interim dividend on the £1 ordinary shares at the rate of 9d. per share free of tax for the six months ended September 30.

FILTRATORS LTD.—At a meeting held in London on October 7 it was resolved that this company be wound up voluntarily. Mr. S. H. Mearns, 4b Fredericks Place, London, was appointed liquidator.

LIVERPOOL MEDICAL HALL, LTD.—At a meeting held at Liverpool on September 18 it was resolved that this company be wound up voluntarily. Mr. P. S. Booth 2 Bixteth Street, Liverpool, was appointed liquidator.

Burt, Boulton & Haywood, Ltd., show a net profit of £73.445 for the year ended June 30 (against £70,326 for 1928-29). The dividend on the ordinary shares is reduced from 10 per cent. to 9 per cent., the interim payment having been lowered from 5 per cent. to 4 per cent., but an allocation of £15,000, against nil, is to be made to reserve, the carry-forward being slightly higher at £15,070 (against £14,956).

Companies that may be dissolved.—Notice has been given in "The London Gazette" that the names of the undermentioned companies will be struck off the register three months after September 30, and the companies dissolved, unless cause is shown to the contrary: Beauty Salons, Ltd.; Dalton Chemical Works, Ltd.; Mothersill & Co., Ltd.; Nichols Chemical Co., Ltd.; Phillipps & Woolf (Pharmacy and Opticians), Ltd.; Spencers (Chemists), Ltd.

Bankruptcy Reports

Re Thomas William Goddard, 32 Warwick Street, Barrow-in-Furness, Lancs., chemist and druggist. The receiving order in this matter was made on the debtor's own petition on September 29, and, according to the statement of affairs filed, there are liabilities expected to rank for dividend of £2,550 os. 9d., against assets of £612 17s. The deficiency, therefore, is £1,937 3s. 9d. The debtor states that he took over the present business in May 1920, for which he paid £1,400. The purchase price was borrowed from his mother, as well as a further £100 for furnishing, etc. He managed the business himself, with the assistance of apprentices. Since he began trading two other similar businesses opened near him, and, consequently, his turnover was reduced. He has always carried a considerable stock, and has experienced difficulty in paying for it at times. The accounts kept consist of cash till sheets, cash summary book, day book and debtors' ledger. Roug', yearly balance sheets have also been prepared. He attributes his failure to "depreciation of stock after 1920, competition by other businesses opened since, and injudicious buying."

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1930, p. 341.

(From "The Trade Marks Journal," September 10, 1930.)

- "Selinta"; for lint (11). By G. Haynes & Co., Ltd., Cherry Tree Lane, Stockport. 514,705.
- "KODAK"; for cotton piece goods (24). By Kodak, Ltd., Kingsway, London, W.C.2. 141,429. (Associated.)
- "Bux" with triangular design incorporating winged horse; for photographic prints (39). By H Buckley, 84 Far Gosford Street, Coventry. 513,130.
- "KIA-ORA HALF-AND-HALF LEMON AND ORANGE" ("Half-and-Half" disclaimed); for beverages (42) and aerated beverages (44). By Kia-Ora, Ltd., 35 to 38 Rushworth Street, Blackfriars, London, S.E.1. 514,434/435. (Associated.)
- "JULIFLOR"; for perfumery, etc. (48). By Jules Frères, Ltd., 154-164, Walworth Road, London, S.E.17. 514,694.
- (From "The Trade Marks Journal," September 17, 1930.)
- "Zerosel"; for water softeners, etc. (1). By United Water Softeners, Ltd., Aldwych House, London, W.C.2. 514,915. (Associated.)
- "Plantoids"; for fertilisers (2). By Livermore & Knight. Ltd., 59-60 Old Bailey, London, E.C.4. 511,910.
- Device of conventional lion; for medicinal chemicals (3).

 By A. J. H. Kongsted, 19 Bronshojvej, Copenhagen,
 Denmark. 512,173.
- "Ohropax"; for medicinal chemicals (3). By M. Negwer, Jägerstrasse 40, Potsdam, Germany. 514,376. (Associated.)
- "Glorges"; for medicinal chemicals (3), food substances (42) and for perfumery, etc. (48). By J. Van Praagh. 83 Baker Street, London, W.1. 514,620/621/622. (Associated.)
- "Pepsatone"; for medicines (3). By W. Martin, 225 Holywood Road, Belfast. 514,764.
- "BILLETTE"; for photographic apparatus (3). By I.G. Farbenindustrie A.G., Mainzerlandstrasse 23, Frankfort-on-Main, Germany. 514,374.
- "Dant" by the side of device of triangle and circle ("Dant" disclaimed). By A. Danta, 13 Regent Quay, Aberdeen. 509,854.
- "Cosmo"; for toilet papers (39). By The Drayton Paper Works, Ltd., Sullivan Road, South Park, Fulham, S.W.6. 513,611.
- "Soir De Paris"; for perfumery, etc. (48). By A. Bourjois et Cie, 60 & 62 Rue d'Hauteville, Paris. 514,771. (Associated.)
- (From "The Trade Marks Journal," September 24, 1930.)
- "ELIZABETH ARDEN"; for deodorisers (2), ointments, etc. (3), goods (11), (13), (14), (37), (39), (40) and (50), and for toilet preparations (48). By Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1. 505,639/640/641/642/643/644/645/646/647 and 494,643 and 511,125. (Associated).
- "Mucain"; for chemicals for injections as local anæsthetics (3). By F. Merz, 100-104 Eckenheimerlandstrasse, Frankfort-on-the-Main, Germany. 512,995.
- Pure Dextrose cPc " with label design incorporating cross device ("cPc" disclaimed): for dextrose (5) and (42). By Corn Products Co., Ltd., Bush House, Aldwych, London, W.C.2. 513,956/957. (Associated.)
- "RED RING SERIES NAZOTARR INHALANT" with label design ("Nazotarr" and "Red Ring" disclaimed); for medicated inhalants (3). By Cupal, Ltd., King Street Bridge, Blackburn. 514,774. (Associated.)
- "Trilinear"; for cameras and lenses (8). By I.G. Farbenindustrie A.G., Mainzerlandstrasse 28, Frankfort-on-Main, Germany. 513,802.
- "Nifco"; for scientific apparatus (3). By The Non-Inflammable Film Co., Ltd., 136 Regent Street, London, W.1. 515.150.

 "Durium"; for all goods (3). By Durium Products Corpora-
- tion, 460 West 34th Street, New York, U.S.A. 515,589.
 "Vicson"; for surgical instruments (11). By Vicarey Davidson & Co., 172 Bath Street, Glasgow. 514,612.

Pharmaceutical Society of Northern Ireland

Annual Meeting

The annual meeting of the Pharmaceutical Society of Northern Ireland was held on October 6, in the Chamber of Commerce, Belfast, Mr. Fred Storey (president) in the chair. There was a large attendance. Apologies for absence were received from Messrs. R. I. Edwards, H. J. Cousley (Dungannon), R. Kerr (London), and T. Harper.

DEATH

Before proceeding with the business, the President announced the death of Mr. Andrew Wilson, a member of the Council, who had passed away that evening. Mr. Wilson was also for a period a member of the Council in Dublin. He was a man who took a very lively interest in trade affairs and the affairs of the Associations connected with pharmacy in Northern Ireland. They always liked to see him at the Council meetings, but, unfortunately, for a considerable time he had been laid aside by a serious illness. Last week his condition had become very critical, and he had passed away that evening. He regretted his passing very sincerely, and begged to move a resolution of sympathy with Mrs. Wilson and family in their great loss.

Mr. S. S. Badger, seconding the vote of sympathy, described Mr. Wilson as a straight, honourable man; a man whom they could ill afford to lose. He desired to associate himself with the president's remarks.

Mr. W. J. Hardy, in supporting the resolution, said Mr. Wilson had been a tower of strength to pharmacy. Mr. J. E. Connor said he had served with Mr. Wilson in both the Dublin Council and the Belfast Council. They were proud to have had a man like Mr. Wilson representing the North in the old Society. In his removal pharmacy had lost one of its brightest stars.

Mr. J. C. Culbert said he knew Mr. Wilson intimately for many years, and greatly regretted to hear of his death.

Mr. Jas. Dundee and Mr. Jas. Macauley joined in the tributes, and the Council by a standing vote passed the resolution.

COUNCIL ELECTION

The President declared Messrs. A. C. McBride, W. S. Taylor, R. I. Edwards and J. C. Culbert elected members of the Council (pharmacists' section) for the ensuing three years, and Messrs. S. Gibson and Wm. Martin (druggists' section). There were no other nominations, so that a contest had been avoided. He was glad to welcome Mr. Culbert back to the Council and to see five of their old members returned. Mr. Culbert had been elected to fill the vacancy caused by the retirement of their old friend, Mr. A. Wilson, now deceased.

Mr. McBride returned thanks, and said that the Council had done its best to carry on for the good of pharmacy. Mr. Storey had been an excellent president during the year and had not let them down. It was not the fault of the Government or the secretary of the Society that certain people had been given licences to sell agricultural poisons who were not qualified.

Mr. Culbert also returned thanks and said he would do what he could in the interests of all concerned.

PRESIDENT'S ADDRESS

In the course of his presidential address Mr. Storey said they had had a very successful year, and he felt that the dark clouds of bad trade were dispersing and that they would soon get a glimpse of better days ahead. He regretted to say they had lost by death many valued members:—Mr. W. G. Mitchell, Derry, a gentleman who took a great interest in Derry affairs both in the county and city; he was a chairman of the local Association; Mr. Wm. Kennedy, Belfast, who had been in failing health for some time; Mr. James Guiler, Belfast, was one of their examiners and had

also been an examiner in Dublin; Mr. James Wallace, Tandragee; Mr. R. Johnston, Downpatrick and Mr. John Black, Lurgan, all men of standing in the profession, who would be sadly missed. They had also lost one of their associates, Mr. Wm. Haslett, Belfast, a former president of the Chemists' and Druggists' Society. During the year there were twelve Council meetings, one a special meeting, thirteen meetings of Committee, Education, Law, Finance and General Purposes. One meeting was held of the Watching Committee, which was set up during his predecessor's term of office in anticipation of medical benefits being extended to Northern Ireland, to watch that the rights and privileges of the chemists were not interfered with and to act in an advisory capacity. This committee considered the Bill and, not being satisfied, asked the Ministry of Labour to receive a deputation. They agreed, and he brought the entire committee. They discussed the position with Mr. Godden, who agreed to include a Central Chemists' Committee in the Act, but with the result they already knew. The last examination for regisresult they already knew. The last examination for registered druggists who wished to qualify as pharmaceutical chemists under Schedule 2 took place in June last. This wound up the examination under Schedule 2, Part 3. Part 1 was still open till June, 1932, for druggists' apprentices and pharmaceutical assistants who were at business prior to the passing of the Act. Part 2, Schedule 2, was also open till June, 1932, for certain pharmaceutical assistants. In the last final examination a very high standard was reached by all the candidates. They had instituted the presentation of the candidates. They had instituted the presentation of medals this year, both for Part I, Preliminary Scientific examination and the Final examinations. He considered they had made distinct progress with the thorny question of agricultural poisons during the year. They had a deputation to the Ministry of Home Affairs, with the result that he sent out a very strongly worded letter to all the local authorities; with some of the County Councils it had borne fruit, and others had just gone on as usual. He knew the Ministry was alive to the necessity of stopping the indiscriminate granting of these licences, and he would be greatly surprised if they did not see action taken soon. They would be glad to know that the Pharmacy Board of Australasia had agreed to establish reciprocal arrangements with them. This covered all the Pharmacy Board of Australia and that of New Zealand. Mr. Badger, Mr. Connor, the secretary and himself were appointed delegates to the British Pharmaceutical Conference held in Cardiff in June last. They were received very enthusiastically. They had not as yet secured a building for headquarters; the committee was still on the lookout for suitable central premises. During the year Mr. W. D. L. Greer resigned his position as registrar of the Society. The Society owed a great deal to his able handling of the various problems which arose. Mr. Strahan had been appointed to succeed him. Those who had been in touch with Mr. Strahan were struck with his ability. They were officially represented on the B.P. and B.P.C. Committees by Professor Small, who was devoting an enormous amount of time to the work. Professor Small and himself were appointed to take up the matter of a Potent Drug Schedule, and he had had a very favourable interview with Professor Wilson, dean of the faculty of medicine, Queen's University. Mr. Storey said that since June 1926 305 certificates had been issued to licentiates—sixteen final (new syllabus), seventy-seven final (old syllabus), and 212 Schedule II. Seventy-seven preliminary scientific certificates have been issued since June 1926, and sixty-six certificates of apprentices to a pharmaceutical chemist had been issued during the year. The total number of licences issued at September 1, 1930, was 368 pharmaceutical chemists, four chemists and druggists, fifty-seven druggists, fifty-four limited chemists, and ten executors. It would appear

from the number of chemists qualified recently and from reports that there was a surplus of qualified men and many out of work. This was not so. There were four vacancies lately to his knowledge, and it was with There were great difficulty that three of them were filled, and it looked as if it would be more difficult, as under the National Health Insurance Act medicines must be dispensed by a qualified pharmaceutical chemist, or under his direct supervision. Four limited companies were registered during the past month to carry on the business of pharmaceutical chemists. He could not close without expressing his thanks to their secretary, Mr. Kirkpatrick, and his daughter, for the very great and efficient help they had been to him and to the Council, and also expressing his thanks to the vice-president and members of the Council for their support during the year. He urged the young members to take a keener interest in the Society.

Discussion

Mr. Hogg urged that students should take more advantage of the Society's library, and referred to the non-success of Irish students this year in the Fairchild scholarship examination.

Mr. Moore and Mr. Macauley raised the question of providing a building for the Society.

The President said they had inspected several buildings, but none had been found suitable so far. He agreed as to the necessity of central premises, but there was a feeling that property would become cheaper.

Mr. Dundee referred to the Watching Committee on

Medical Benefits, and said he was on it as well as the N.I.P.A. Committee. He agreed to their going to the Ministry of Labour, but he did not see that it would do much good.

Discussion arose as to what transpired at the Watching Committee's deputation to the Ministry of Labour, in the course of which the President said he still felt it would have been better if the chemists had got a Central Committee as the doctors had.

Mr. Gibson said he did not think that the Council had been properly treated by the Government. Certain members had been disloyal to the Council in going

behind the back of the Council.

Mr. Culbert said that the N.I.P.A. Committee had decided such a Central Committee was not necessary. It was, he thought, bad taste that the Committee went to the Ministry of Labour without having consulted with the chairman of the N.I.P.A. Committee that had been handling the matter for two years. The Ministry saw fit to make its arrangements with the N.I.P.A., and the Watching Committee had no locus standi, the rights and privileges of chemists not being involved.

Mr. Adams did not see the necessity for a Central

Committee.

Mr. Todd said the Watching Committee of the Pharmaceutical Society did nothing for eighteen months, whereas the N.I.P.A. Committee was very busy in the

matter.

The President said until the Bill was produced he did not see what the Watching Committee could do. He felt that the chemists had not got a fair crack of the whip in the Bill when he went through it. They were only mentioned twice, and he felt a Central Chemists' Committee would have been very useful. He would have liked to see even the N.I.P.A. Committee in the Act, instead of being consulted merely out of courtesy if the Ministry pleased. He did not see that it was bad taste in the Watching Committee going to the Ministry. He thought it was doing the right thing in urging that the chemists should be protected by a chemists' committee.

Mr. J. E. Connor expressed the view that negotia-

tions by the Government should be with the Pharmaceutical Society. Where that was not done in England it was found to be a mistake. In conversation with some of the leading Scottish pharmacists in Cardiff they expressed the view that the Council of the Pharmaceutical Society should have been engaged in negotiations with the Ministry. He did not think the action of

the Watching Committee was ultra vires. Mr. Culbert said that until statutory rights and privileges were infringed, any action taken by the Watching · Committee outside the one point was ultra

The President disagreed with this view. Only that very day a druggist had informed him that the Ministry of Labour had given him a card authorising him to dispense medicines. If that was not interfering with the rights and privileges of chemists he did not know what was, and he understood several cards had been issued.

Mr. Culbert said that if that was so, the card had been issued in error by the officials of the Ministry.

Mr. McBride said they were all talking in the air, as the Act was now in force. He was sorry to hear cards had been sent through gross error to any drug-

Mr. W. E. Wilson asked for information as to the letter sent out asking that each chemist in the panel agree to a deduction of 3d. in the f from his payments

for expenses.

Mr. Culbert said there would be considerable expenses in connection with local committees. They had no means of ascertaining what the cost would be with exactitude as yet. There had been a discussion at the Committee as to how these expenses were to be met, and it was considered hardly fair that those who had taken an interest in the matter should have to bear all the expenses.

The President said that the Ministry ought to pay the expenses, and read the clauses in the Act supporting The Ministry was already taking is, out of the

13s. for administrative expenses.

Mr. CULBERT said that referred to the Committee set up for special purposes. The medical men had agreed to a reduction of fourpence.

Dr. Acheson: That is not so. There was one halfpenny per insured person to be pooled, but that was to pay for anæsthetics, etc., and if the halfpenny does not cover this the Government is to make up the balance.

FINANCIAL STATEMENT

Mr. Dundee submitted the financial statement showing a balance on the year's working of £1,460 os. 10d. The capital account showed a total of £6,865 13s. 7d., investments being taken at cost.

Mr. Badger, in moving the adoption of the report

said it was an excellent one.

Mr. Todd seconded the motion, which was passed. On the motion of Mr. McBride, seconded by Mr. BADGER, the thanks of the meeting were given to Mr. Dundee for his services as treasurer.

Mr. Dundee said that the work had been largely done

by Miss Kirkpatrick.

PRESENTATIONS

Miss L. M. Forrest was presented by the president with the Society's medal for first place at the Licence examination, and Mr. H. McCreedy with the medal for

first place at the Preliminary scientific.
Professor James Small, D.Sc., was presented with the certificate of an honorary member of the Society. They were proud of having Professor Small on the Council.

Professor SMALL, in reply, said he thought the standard of pharmacy in Northern Ireland had been definitely raised during the past few years.

Vote of Thanks

Mr. Badger moved a vote of thanks to the president for his services in the chair.

Mr. H. F. Moore, in seconding, said Mr. Storey had conducted himself so well in the chair that his only regret was he could not be president for a second year.

Mr. C. B. ABERNETHY said that the people who really mattered in the drug trade considered Mr. Storey the

brainiest man in Irish pharmaceutical politics.

Mr. S. Gibson supported the motion, which was put to the meeting by Mr. Hardy and passed by acclama-

Mr. Storey, acknowledging the vote, said his one object was to raise the status of pharmacy at all times. A hearty vote of thanks was passed to the secretary

and Miss Kirkpatrick, and the procedings ended.

Pharmaceutical Society of Great Britain

Special Lecture

The first lecture of a series to be given by Dr. J. H. Burn, director of the Pharmacological Laboratories of the Pharmaceutical Society, on Monday evenings throughout the winter, was delivered on October 13. The lecture hall at Bloomsbury Square, despite the earliness of the hour, was filled to capacity. Although the lectures are primarily intended for students they are of exceptional interest to chemists in every branch. Mr. A. R. Melhuish (president of the Society), in introducing Dr. Burn, said it gave him great pleasure to inaugurate the series. Every chemist had something to do with the subjects to be dealt with. Dr. Burn was doing a great service not only to students, but to pharmacy generally. He wished the lecturer every success in the delivery of the lectures, and hoped the audience would attend throughout the course. Dr. Burn, in a few prefatory remarks, said he would take the subjects as they came without necessarily confining himself to any definite number for any one evening. He then proceeded to lecture on "Pituitary (Posterior Lobe) Extracts," and illustrated his remarks by blackboard and slide. At the conclusion members and students were permitted to examine the various specimens used.

Branch Meetings

Birkenhead.—The opening meeting of the Birkenhead and Wirral Pharmacists' Association and Branch of Pharmaceutical Society was held on October 8, the president, Mr. C. H. Wright, in the chair. Mr. W. Deacon (member of Council) gave an address on X-Rays, Their Mystery and Use. Mr. Deacon dealt very lucidly with the early discovery by Röntgen, and showed with a series of splendid lantern slides the efficient apparatus as used to-day. X-rays enjoyed a wide range of usefulness in hospital life, dentistry and industry, where vital mechanical parts could be tested for their efficiency. A hearty vote of thanks was moved by Mr. Waterworth and seconded by Mr. Dewar.

Association Meetings

Birmingham.—The opening meeting of the Birmingham Pharmaceutical Association took place on October 8, more than 100 members and friends being present. The visitors were received by the president (Mr. H. Berry) and Mrs. Berry. Mr. Berry, in his presidential address, extended a hearty welcome to all new members, and gave provisional details of the programme arranged for the coming session. He was pleased to report that the Council had seen fit to make a considerable reduction in the subscription payable by proprietor-members to the Association, but he wished to impress on everyone the necessity of an immediate increase in this type of member in order to balance the future accounts. The Association was now developing in all directions. A social subcommittee had been formed, and this committee was forming sports sections for cricket, football, golf and tennis, and later it was hoped to organise scientific, motor and ladies' sections. Mr. Berry pointed out that the Association embraced the whole craft, and concluded with brief references to the Pharmacy Bill, the pharmaceutical chemist qualification, the Preliminary examination, and apprenticeship. A vote of thanks to the president was proposed by Mr. C. V. Thompson (vice - president) and seconded by Councillor J. Poole. Mr. Berry replied. Mr. S. C. Blore appealed for subscriptions for the Benevolent Fund.

Cardiff.—A conjoint meeting of the Cardiff Pharmacists' Association and Branch of the Pharmaceutical

Society was held on October 9, Mr. E. A. Ward (president) in the chair. Before commencing business the chairman, on behalf of the members, congratulated Mr. Jabez A. Jones, one of the founders and oldest members of the Association, on the attainment of his seventy-sixth birthday. It was unanimously decided to hold the annual dinner, probably in November, and to combine with this function some form of entertainment to celebrate Conference year and its success. For the services of the local secretary (Mr. James Murray) at the Conference, it was agreed that an illuminated album be presented to him and an article in silver to Mrs. Murray.

Edinburgh.—The annual general meeting of the Edinburgh and District Chemists' Trade Association was held on October 7, Mr. George Hall (president) in the chair. The treasurer's report indicated a balance in hand of £40 17s. The following were elected office-bearers for the ensuing year:—President, Mr. James Adamson; Vice-President, Mr. John Chalmers; Secretary, Mr. John R. Wilson; Treasurer, Mr. George Hedderwick; Committee, Miss Boag, Messrs. Mitchell, Noble, Hall, Girdwood, Muir, Meredith, Heddle and Wright.

Portsmouth.—The annual meeting of the Portsmouth Pharmacists' Association was held on October 8, the president, Mr. W. L. Egerton, in the chair. There was a good attendance, and five new members were elected. The treasurer (Mr. F. Hemming) produced a balance sheet showing a credit balance of over £45, and the secretary (Mr. F. H. Ruoff) also presented a satisfactory report. The following officers were elected for the ensuing year:—President, Mr. W. L. Egerton; Vice-President, Mr. J. W. Rogers; Treasurer, Mr. F. Hemming; Secretary, Mr. F. H. Ruoff; Auditors, Messrs. J. E. Eyres and J. W. Rhodes; Committees (General), Messrs. W. R. Atterbury, W. H. Bown, G. W. Darling, C. Fry, E. D. Lewis, A. W. Goddard, H. A. Mecoy, and W. L. B. Murray, with the president, vice-president, treasurer and secretary ex-officio; (Trade Section), Messrs. W. R. Atterbury, W. H. Bown, G. W. Darling, W. L. Egerton, C. Fry, W. R. Hart, J. W. Rhodes, J. W. Rogers, and F. H. Ruoff. It was decided to make a donation of five guineas to the Society's Benevolent Fund and two guineas to the Society's Orphan Fund. Affiliation fees of one guinea each to the Early Closing Association and the Portsmouth Chamber of Commerce were approved, and Mr. Ruoff was reappointed as the Association's representative upon the Chamber.

League of Nations

The Fifth Committee of the League of Nations reports that the date of the Conference, originally arranged for December 1, 1930, has been definitely fixed by the Council for May 27, 1931, and that the preliminary meeting of manufacturing countries convened by Great Britain, in accordance with the offer of the British Government which was approved by the Council at its meeting of May 14, 1930, will meet on October 27. At the request of the Spanish representative, the British delegate announced to the Committee the list of states invited to the preliminary Conference in London. These States are: France, Germany, Great Britain, India, Italy, Japan, the Netherlands, Switzerland, Turkey, Union of Soviet Socialist Republics, United States of America. The Fifth Committee held a long debate on the question whether the May Conference should be limited to a certain number of states, as provided for in the decisions of the Assembly and the Council, or whether it was desirabe to expand it into a general conference of all states members and non-members of the League of Nations. The Committee finally adopted the idea that the best way of satisfying the legitimate wish of all states to be represented at the Conference would be simply to convert the May Conference into a general Conference of all states, and to ask the Fourth Committee to vote the necessary supplementary credits; and passed a resolution to this effect.

Festivities

London County Association Dinner

The dinner of the London County Pharmaceutical Association, held at the Restaurant Frascati, Oxford Street, W.I, on October 9, was a recognition, in a time-honoured way, of the revival of a body that has been in a state of trance (or cold storage, if the term is preferred) for several years past. At a dinner of the Association held ten years ago the late Sir William Glyn-Jones delivered a pointed warning against organisation on too large a scale; with this in mind some of those present arrived wondering why this County Association had been revived. As will be seen from our account of the speeches, their doubts were resolved. Supporting the president (Mr. J. Hearle) at the top table were Mrs. Hearle, Mr. A. R. Melhuish, Mr. H. H. Marshall (chairman of executive, Retail Pharmacists' Union), Mr. William Bennett, M.P., Mr. O. B. Meadwere (vice sheirman of the Landau Leville, Mr. Landau). Pharmacists' Union), Mr. William Bennett, M.P., Mr. D. B. Meadmore (vice-chairman of the London Insurunce Committee), Dr. J. H. Cardale (chairman of the London Panel Committee), Mr. R. R. Bennett (a pastchairman of the British Pharmaceutical Conference), Mr. and Mrs. W. E. D. Shirtliff, and Mr. R. W. Lindsey. The spur tables were in charge of Miss Borrowman and Messrs. A. Coulton, T. E. Cushing, J. E. Lockyer, T. Morley Taylor, G. A. Tocher and J. C. Young; and the company also included five members of the Pharmaceutical Society's Council (Mrs. Freke, Mr. John Humphrey, Mr. A. H. Jenkin, Mr. Herbert Skinner and Mr. F. G. Wells), Mr. W. Felton, Miss Dennis Hayes, Mr. Harry Martin, Mr. J. Milner, Mr. Philip Royle, Mr. and Mrs. W. P. Want and Mr. A. J. Wing. Real candles and comic toasts served to distinguish the function from the generality of chemists' dinners. The speeches as a whole were in excellent taste and not unduly long. whole were in excellent taste and not unduly The oratorical programme was opened by Mr. William Bennett, M.P., with the toast of "The Pharmaceutical Society and the Retail Pharmacists" Union." Mr. Bennett said that a splendid compliment had been paid to the Society by the Departmental Committee. After a humorous reference to a country pharmacy in which a bell-metal mortar was vigorously pounded when business was slack, Mr. Bennett went on to say that next year a new Parliamentary Bill would probably be brought in. In union there was strength.

He noticed an enormous change from the old days when chemists were fighting one another and cutting one another's throats. Combination, as exemplified in the Retail Pharmacists' Union, had been of great advantage to pharmacists throughout the country. Responding for the Society, Mr. Melhuish said that the draft Bill had been discussed clause by clause and almost word by word at Council meetings of the Pharmaceutical Society. Too much time could not be given to mapping out their course for the future. That evening's dinner was in the nature of a "get together" policy. He had laboured, from the inception of the Hard hard sevening the sevening of the sevenin policy. He had laboured, from the inception of the Health Insurance Act, to obtain the dispensing of medicines by those who were educated for the purpose. Mr. Marshall replied for the Retail Pharmacists' Union, indicating the Union's chief activities, and adding that the Union was watching the draft Bill very carefully. The R.P.U. had made a success of the drug fund, and he hoped that Pharmacy Week would become a national institution. Submitting the toast of "The London County Pharmaceutical Association," Mr. Meadmore described pharmacy as an ancient and honourable craft, intimating that in former times its practitioners might have been burnt at the stake as sorceers. After praising the County Association and its "alter ego," the London Pharmaceutical Committee, Mr. Meadmore made two or three practical suggestions, one of which was that something might be done to stop the coupon business. Responding in an amusing speech, Mr. Hearle said that London County was the home of the lost tribes of Scotland, Wales and a medley of people from all parts of the world. The object of the County Association was to make

these people speak with one voice. The chairman welcomed many of the distinguished guests present, including under that heading representatives of the manufacturing and wholesale houses, and even representatives of the trade Press. Mr. Tocher, the chairman added, was a genius, to whom they owed a deep debt of gratitude. The remaining toast, that of "The Ladies," was given by Mr. E. A. Atkins in a chaffing speech, which Mrs. Shirtliff, replying, characterised as in places verging on the libellous. Mrs. Shirtliff added, however, that some of the ladies present would need to take a larger size in hats. With this graceful tribute the speeches ended, and dancing filled the remainder of the evening.

Manchester Annual Dinner The annual dinner of the Manchester Pharmaceutical

Association was held at the Midland Hotel on Octo-Association was need at the Midland Hotel on October 8. The guests were received by Mr. E. Stabler (president) and Mrs. Stabler, and included the Lord Mayor of Manchester and the Lady Mayoress, the president of the Pharmaceutical Society (Mr. A. R. Melhuish) and Mrs. Melhuish, and Mr. W. Bennett, M.P. After the loyal toast had been honoured, Mr. J. H. Franklin proposed the toast, "The Lord Mayor and Corporation of Mayobester" and explosed the reset president the of Manchester," and spoke of the great problems the Corporation had to deal with. He mentioned also the splendid services rendered to the City by the Lord Mayor and the Lady Mayoress during their year of office. The Lord Mayor (Councillor R. N. Barclay), in responding to the toast, said, first, he wished to thank the Association for their kindness and hospitality to both he and the Lady Mayoress, and, secondly, to thank Mr. Franklin for his kind words. Dealing with matters of public health, he said that one of their own pharmaceutical members, Councillor R. G. their own pharmaceutical members, Councillor R. G. Edwards, was proving of great value, and his work was greatly appreciated by his colleagues on the Council. In conclusion, the Lord Mayor said that pharmacists, by their education and business experience, were admirably fitted for work on the Council. Mr. E. Stabler (president), in proposing the toast of "The Pharmaceutical Society of Great Britain," said that the work done by the Society for the retail chemists had been of great value. Although the present was a critical period, he was sure everyone connected with pharmacy would help to amend the draft Bill to ensure that suitable and satisfactory conditions may arise from the long-drawn-out negotiations. Mr. A. R. Melhuish (president of the Pharmaceutical Society), responding, said he wished to thank the Manchester Association for their welcome and for their charming hospitality. The practice of pharmacy, he said, was not as we should like to have it, but the Council had laboured with the object of improving conditions and securing for pharmacy its rightful position. The Council attached the greatest importance to the opinions of the branches. He referred to the forthcoming British Pharmaceutical Conference to be held at Marchester, and wished it every success. Mr. E. H. Simmons, in proposing the toast, "The Houses of Parliament," said that although this was the last toast on the list, it was the most important. He amused his audience by was the most important. He amused his audience by recounting various episodes and incidents that had happened when he had visited the House. In spite of all the disappointing results at the last general election, one crumb of comfort was the return of their esteemed friend and colleague, Mr. W. Bennett, M.P. They could rely on Mr. Bennett putting their case before the House in an expert and confident manner when the time arose. Mr. W. Bennett, M.P., in reply, thanked the Association for their kindness and hospitality and also Mr. Simmons for the many kind things said about himself. He dealt with various measures, and said that the pharmacists of this country could rely on his support for any measure, that although a pharmaceutical measure, had the welfare of the country at

Ministry of Health Report

HE eleventh annual report of the Ministry of Health, covering the major activities of that Department during the year ended March 31, 1930, has recently been issued (Stationery Office, 4s. 6d.). The report deals with a great diversity of subjects, not the least important being those affecting the drug trade. Taking first the Therapeutic Substances Act, 1925, the report states that twenty-six new licences were issued during the year, five to manufacture, twenty to import, and one for research. The report also mentions that sterilised surgical catgut is now within the scope of the Act (C. & D., February 1, p. 125). The inspectors appointed by the licensing authority have carried out further inspections both in this country and on the Continent.

Food and Drugs

Five pages of the report are devoted to the Sale of Food and Drugs Act, from which it is learned that the number of samples analysed in England and Wales during the period under review was 133,584, exceeding the total for the previous year by 4,550. The number of samples reported as adulterated or not up to standard was 7,260, being 5.4 per cent. of the whole. percentage showed a slight reduction on that for 1928, which was 5.8 per cent. Two samples of lard were found to contain free fatty acids, and five samples were not entirely derived from pig's fat. Two samples of flour contained arsenious oxide and another ammionium sulphate. Proceedings were instituted against the vendor of two samples of olive oil which proved to consist entirely of soya bean oil. Twenty-seven samples of pepper contained added starch, while twentyeight samples of ground spices contained siliceous matter. Referring to non-alcoholic wines, the analyst stated that " their composition was satisfactory, but it is possible that consumers do not always realise the strength of some of these beverages if any children consumed a few glasses thinking them to be non-alcoholic the effect might be interesting. Two of the wines analysed contained a considerable proportion of proof spirit, a sample of ginger wine con-

taining as much as 24 per cent.

5.544 samples of drugs were examined, and 254, or 4.6 per cent., were found to be adulterated, as compared with 5.6 per cent in 1928. Several samples of camphorated oil were reported against as being deficient in camphor, and one sample was reported to be made from mineral oil instead of olive oil. Tincture of iodine was adversely reported on as being deficient in iodine, or potassium iodide, or both. Fourteen prescriptions were deficient in, or contained an excess of, the prescribed constituents. A sample sold as distilled water proved to be water from the ordinary public supply, and the vendor was fined. The vendor of a sample of cod-liver oil tablets, which was found to be devoid of vitamin A, agreed to discontinue the sale. Thirty-one samples of sweet spirit of nitre were found to be deficient in ethyl nitrite, probably, states the report, due to deterioration through improper storage. A deficiency in weight of one or both of the white and blue packets of thirteen seidlitz powders was reported.

National Health Insurance

In the section dealing with National Health Insurance (Administration of Medical Benefit) the report states that 14,600 doctors were in insurance practice during 1929. Medicines and appliances were supplied as part of medical benefit at about 9,000 chemists' shops. The number of insured persons entitled to medical benefit was a little over 14,000,000. Medical benefit cost over £8,666,000, and of this sum insurance doctors received over £6,256,000 in respect of their duties of attending and treating insured persons; and £1,922,800 of the balance was paid to insurance chemists for the supply of drugs and appliances. The remainder

was expended in adjustments of the main finances of medical benefit to various special conditions arising under the Act or in the circumstances of insurance practice. Under the arrangements by which insurance chemists accept liability for the supply of all drugs and prescribed appliances ordered for insured persons by insurance doctors, and in return receive collectively the annual sum of the Chemists' Central Fund, the maximum amount available for the purpose, payment of chemists' accounts for 1929 was made in full. The number of insurance prescriptions dispensed in 1929 increased by 8 per cent., as compared with 1928, the number rising from 51,988,025 to 56,199,256; and the average number of prescriptions issued per insured person entitled to supplies increased from 4.27 to 4.56. These variations, the report continues, were presumably due, in the main, to the severe epidemic of influenza in the spring of 1929. The National Formulary, states the report, has already been adopted in the areas of eighty-six out of the 129 insurance committees.

The number of cases in which money has been withheld from insurance chemists on account of breaches of their terms of service, and the total amount withheld, rose from 149 and £203 in 1928-29 to 184 and £267 in 1929-30. Under the schemes of insurance committees for testing drugs and appliances about 4,180 samples were tested. The proportion of samples found on analysis to be correct or so nearly correct that there was no ground for withholding remuneration, was over 95 per cent. It appears, therefore, states the Ministry, that there is no falling-off in the high standard of dispensing in the insurance medical scrvice. In the large majority of the cases in which money was withheld from chemists, substantial inaccuracies had been revealed in the dispensing of prescriptions for tests. In most of the cases sums of 1 were withheld. The largest amount of money withheld from a chemist in any case was f.io. Two cases arose with respect to the continuance of chemists in the list of persons supplying drugs or appliances to insured persons. In one, the insurance committee concerned withdrew their representation, the firm of chemists having dissolved before it could be considered. In the other, a dccision had not been reached by the end of the year.

Welsh Board of Health

In the Report of the Welsh Board of Health it is stated that the issues of funds by the Department to insurance committees for providing medical benefit and for defraying expenses of administration amounted in 1929 to £585,031, as compared with £580,239 in 1928. The cost of drugs supplied by practitioners to insured patients in 1929 was £18,192, making a total payment for medicines and appliances supplied by doctors and chemists of approximately £103,500, as compared with £103,245 in 1928. The testing of medicines supplied by chemists under contract with insurance committees is carried out by an analyst who has entered into agreement with each insurance committee for the purpose. Appliances are tested on behalf of insurance committees at the testing house of the Manchester Chamber of Commerce. During the year ended on December 31, 1929, 321 samples of medicines and sixty-one of appliances were taken and reported upon. Of the 382 reports received, sixty-seven were referred to pharmaceutical service subcommittees, with the following results:-No action considered necessary, thirty-three; warning letter sent by the Minister, five; deduction from the chemists' remuneration, seventeen; still under consideration, twelve. The whole report concludes with twenty-seven statistical appendices.

British Association.—An appeal for a fund in connection with next year's centenary meeting of the British Association has been issued from Burlington House, London, W.I, signed by the president and other officers. The sum of £40,000 is required.

Brighter Pharmacy

THOUGH moderately well illuminated shop fronts are becoming the rule rather than the exception, for sheer brilliance many progressive chemists are already putting business neighbours in the shade. In the main streets it is not a question of whether you can afford it, but whether you can afford to be without it. Moths are not the only creatures who find the attraction of light irresistible, as one may notice in shopping centres when the afternoons get darker.

WRONG USE OF LIGHT

In plans for the decoration of frontages with electric light the merely bizarre is to be avoided. A shop should be illuminated with regard to the service it renders, yet instances of light being used in the wrong way are surprisingly abundant. There are still naked lamps hanging in windows, only one-third of their illumination being directed on the goods, the rest is wasted in lighting up the ceiling and the pavement outside, or dazzling the eyes of passers-by. With the new systems of illumination light points are invisible or shielded from the eye, and the shop front is given the prominence of a stage. It is an effect which can be gained very simply and at a low cost, especially in neighbourhoods where there are no windows to colipse normal intensities. The chemist who is off the main street will have most to gain by replacing his pendants with up-to-date reflectors. It is not altogether the geographical position which makes a successful shopping area, but the certainty that one will find a lively brightness which invites attention and displays goods to the best advantage. The more you make your light to shine the greater the attraction will be. In a recent test it was discovered that a window lighted to 15 foot-candles illumination made 200 people stop in an hour. An increase in the illumination to 40 foot-candles resulted in 240 people being drawn to the window; and a further increase to 100 foot-candles stopped 284. Here was a tremendous increase of 42 per cent. for a very slight outlay in electrical energy, which, at 6d. a unit, represents the sum of 7½d. an hour.

AFTER HOUR LIGHTING

Every window has its own problem, but in all cases the wiring should be on two or more circuits in order that the intensity of light can be varied. Having once decided to invest in wiring improvements, additional circuits are only a slight increase in expenditure. immense benefit to be gained by after-hours lighting makes this a most economical system. Only half the amount of light required in the busy hours is needed later to provide an effective contrast to dark streets. Shops do not go in stock sizes, and a thirty-foot window frontage with a height of nine feet from the floor of the window to the ceiling, and depth of five feet might be imagined for purposes of general illustration. It can be lighted from all angles, using footlights and side-lights to produce effects which are irresistible to passersby. But commodities in a chemist's window primarily require a strong light from the top, such as that provided by 150-200-watt gas-filled lamps with reflectors. A tenth of a unit will illuminate a foot run of window for an hour, and to obtain a good intensity no more than one lamp is required every two feet. For alternative lighting, however, lamps would be set about eighteen inches apart. The cost of good reflectors for a window of the proportions given varies from 15s. to 22s. 6d. An economical system of wring should comprise circuits which will show the following results by separate switches:-

For dull afternoons
 For early evening
 After hour lighting
 For winter
 full light
 full light

COLOURS AND SPOTS

Colour lighting will appeal to chemists who want to secure the maximum attention for their shops.

People are attracted by objects that move, and colour changes are a form of movement. There is nothing costly in providing a wide range of hues. With quite simple switching arrangements windows can be lit by one colour one night and a mixture of colours the next. The simplest way is to fit colour screens to the reflectors; with the latest models these screens can be clipped on or taken off at a moment's notice. A common form of pharmacy display is the grouping of a great variety of articles in one window, and the effect from a display point of view is lacking in vitality. The flashing and dimming of light would impart the necessary animation, particularly when worked in conjunction with colour changes. Yet there is often an element of risk in giving the whole window space to one line of goods, but in such cases an immense advan-tage is obtained in windows where lighting approxi-mates to the subtle art of the stage. The model might be illuminated to cast expressive shadows, or made to stand out so that there are no shadows at all, a spotlight being used to throw it into greater prominence. Modern shop lighting is an extremely profitable investment. The power of attraction which it is sometimes hard to secure with the goods alone is ensured by the addition of studied illumination.

N.H.I. Concentrated Infusions

There are no concentrated infusions in the British Pharmacopæia; consequently there is no "official standard for their preparation. The prices of about twenty concentrated infusions are shown in the drug tariff, without any indication as to which formula is to A note at the head of I art III A of the tariff states that all preparations are to be in accordance with the standards specified, and that the letters "B.P.C. denote preparations in the British Pharmaceutical Codex; but these letters do not appear opposite the names of the concentrated infusions quoted in the tariff, so that the only specification of standard, so far as they are concerned, is by price. The drug tariff provides for the selection of a wholesale net list from which are to be taken prices of preparations not quoted in the tariff. In the B.P.C. there are over twenty concentrated infusions of which the formulas are given, but of the forty concentrated infusions quoted in the selected wholesale list (B.D.H.) only two are marked as being prepared according to the B.P.C. Yet the prices in the tariff agree with those in the selected list.

One may reasonably conclude, therefore, that in dispensing a prescription in which a concentrated infusion is ordered (or alternatively, an infusion prepared from the concentrated—"ex conc.") the insurance chemist is allowed a certain amount of discretion and is not bound to the details of any particular formula. The chief requirement of such a formula, undoubtedly, is that the preparation when diluted shall resemble as near as may be the corresponding B.P infusion of ordinary strength. It would appear, therefore, that the discretion left to the chemist may cover the choice of a preservative for the concentrated preparation.

Alcohol is used in the B.P.C. formulas in proportions of about 20z.-50z. to the pint, together with dilute chloroform water. It might be possible to use chloroform alone as a preservative, though an excess would probably show itself in the diluted preparation; but it is doubtful whether an insurance chemist should use any cheaper preparation in dispensing insurance prescriptions than those quoted in the drug tariff. The intention of the Medical Benefit Regulations in this connection may be gathered from the following extract: "All drugs and appliances supplied which are included in the drug tariff shall be of a grade or quality specified therein. Drugs supplied which are not included in the drug tariff shall be of a grade or quality not lower than the grade or quality not lower than the grade or quality ordinarily used for medical purposes."

Proprietary Articles Trade Association

Council Meeting

The quarterly meeting of the Council of the Proprietary Articles Trade Association was held in London on October 9, meetings of the Manufacturers', Wholesale and Retail Sections and of the Executive Committee having been held prior to the full Council meeting. The president, Mr. D. M. Watson, presided. The Council considered the report of the Executive Committee, which dealt with the following, among other, matters:—

Agreements Covering Transactions by Wholesale.— The Committee laid down definite rules governing the conditions under which agreements covering transactions by wholesale in P.A.T.A. articles are to be accepted and enforced.

Membership of the Wholesale Section.—The Committee submitted for confirmation rules for governing membership of the Wholesale Section. These rules, which are the result of careful consideration, provided that:—

Membership of the Wholesale Section shall be confined to firms of good standing and reputation connected with the drug trade, and engaged in wholesale trading only, who stock a substantial range of P.A.T.A. articles, and who issue not less than once a year a price-list of such articles. Applications for membership of the Wholesale Section shall be submitted to the three Sections of the Council for consideration. Final decision shall rest with the Executive Committee. The annual subscription to the Wholesale Section shall be £21. This subscription shall not cover articles on the Protected List. Members of the Wholesale Section shall pay 5s. for each article they place on the Protected List. Should they elect to pay the full manufacturers' subscription they shall enjoy all the privileges of the Manufacturers' Section except representation on the Manufacturers' Section of the Council.

These rules to come into force immediately.

Proprietary Articles Subjected to Extreme Cutting.— The Committee made recommendations regarding two proprietary toilet articles at present widely "cut," and defined the conditions under which the articles in question could be retained on the P.A.T.A. list.

The Executive Committee's report and recommendations were adopted unanimously by the Council.

Price Maintenance Work.—The secretary submitted a report on the price-maintenance and investigation work conducted by the Association during the past quarter. The report, which indicated that some exceedingly satisfactory results had been obtained, was approved and adopted. It was agreed that the next meetings of Council should be held on January 13, 14 and 15, 1931. This concluded the business of the meeting.

Business Changes

C. & W. West, chemists, have opened a new pharmacy in George Square, Coupar Angus.

E. I. DU PONT DE NEMOURS & Co. have removed to Bush House, Aldwych, London, W.C.2.

Burnside & Co., Australian merchants, have removed to 30 Norfolk Street, Strand, W.C.2. Telephone: Temple Bar 7330.

HUMPHREY Jones, chemists, Market Place, Pen-y-Groes, have acquired the business of Mr. O. Pritchard, chemist and druggist, Bangor Street, Carnarvon,

Mustard gas in air.—The International Red Cross Committee at Geneva announces that the competition for the discovery of a reagent for the detection of mustard gas in the air, which started on July 1, 1929, is to close on December 31. The prize offered is 10,000 Swiss francs (£400). Full particulars may be obtained on application to the Committee, 1 Promenade du Pin, Geneva

Personalities

Mr. Gerald A. France (Scott & Turner, Ltd., New-castle-upon-Tyne) is on a visit to the United States and Canada.

Mr. William Bell, clerk to the Surrey Insurance Committee, is mayor-elect of Kingston-on-Thames. Mr. Bell was elected to the Council in 1922.

Mr. W. A. Dunn, chemist and druggist, has retired after having served fifty-one years as pharmacist to the Forest Hill Provident Dispensary, London, S.E.

ALDERMAN D. DAVISON, J.P., C.C., Ph.C., Cromer, who underwent an operation at a nursing home in Norwich on October 1, is making satisfactory progress.

Mr. H. Ansell Lamb has been appointed manager to the sales department of The Pepsodent Co., 8 India Street, London, E.C.3.

Mr. John Gibson, F.S.A., chemist and druggist, Hexham, lectured recently to the Tynemouth Antiquarians Society on "Castles and Pele Towers of Northumberland."

Mr. J. R. Lilleker, chief electrician of Boots, Ltd., Nottingham, gave an address on electricity for shop and house illumination to the Rotherham Chamber of Trade on September 30.

Certificates of naturalisation have been granted to L. Cocuzzi, analytical chemist, 515 Cambridge Road, Bethnal Green, London; and L. Levine, chemist, 12 Tewkesbury Drive, Prestwich, Lancs.

Among the ex-mayors of Morecambe receiving medallions as mementoes of their services, on September 25, was Mr. John Birkett, J.P., Ph.C., Morecambe, whose daughter presented to the Council a coloured photograph of her father in his robes of office.

Ar the Kennel Club's Show, held at the Crystal Palace, London, S.E., on October 8 and 9, the French bulldog brindle bitch, Julie de la Rue, owned by Mr. E. A. J. Owen, manufacturers' agent, Caterham, won the first prize in the novice bitch class, also the special trophy offered by the French Bulldog Club of England for the best novice dog or bitch of that breed.

MR. HARRY ROLFE, chemist and druggist, managing director of Philadelphus Jeyes & Co., Ltd., chemists, Northampton, was installed as Worshipful Master of the Eleanor Cross Lodge 1764 at Northampton on October 10. Mr. Rolfe is secretary of the Northampton Pharmacists' Association and of the Northampton and District Branch of the Pharmaceutical Society.

MR. JOHN CHRISTIE, M.P., president of the South African Pharmacy Board, who has been in London for the past week, has left with Mrs. Christie on a tour of Italy. During the past two months Mr. Christie has visited Scotland, Belgium, Germany and France. Mr. and Mrs. Christie sail for South Africa on November 7 by the s.s. Arundel Castle.

Mr. R. E. Wood, director of Felton, Grimwade & Co., Pty., Ltd., Melbourne, Australia, also of Drug Houses of Australia, Ltd., will arrive in England by the Orient liner "Otranto" towards the end of October. Mr. Wood's mission is to attend to business matters associated with his own and the merger companies. His address while in London will be c/o Grimwade, Ridley & Co., St. John's House, 124 Minories, London, E.C.3. It is Mr. Wood's intention to visit the Continent, and to return to Australia via the United States of America and Canada.

THE ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS, 166 Piccadilly, London, W.1; has issued reprints of a paper, entitled "Dyes and Textiles in Britain: 1930," read at the Bristol meeting of the British Association by Dr. James Morton, a director of the British Dyestuffs Corporation, Ltd., and other companies.

Trade Notes

Reglo is a new product manufactured by Superfine Chemicals; Ltd., 22 Buckingham Gate, London, S.W.I.

G. M. WILLIAMS & Co., 81 Lamb's Conduit Street, London, W.C.1, are the distributors in Great Britain for Urotex.

A NEW SAFETY RAZOR,—The "Daymark" safety razor blade manufactured by W. J. Myatt & Co., Ltd., Argent Works, Birming-



Argent Works, Birmingham, has won an excellent reputation, and the unique device which enables the user to work each edge of his blade in rotation is appreciated by users. The company has now placed on the market a razor. This is considerably heavier than the earlier type of double-edge razor, and, as may be seen in the photograph, it has a solid bar chin guard of

an entirely new design to prevent clogging by lather. Another, and by no means unimportant, point in regard to the razor, is that it cleans instantly when held under the water tap. The new razors and blades are available in attractive packings, and sell at very moderate prices. The cheapest is a leatherette-covered snapcase containing razor, blade and blade case; other outfits are available in nickel, goldoid and silver.

A. F. Sherley & Co., Ltd., 18 Marshalsea Road, London, S.E.1, are again making a bonus offer in connection with their dog and cat medicines.

Pencil Iodrop, Catardrop, Cutidrop and Proxyptic are advertised in this issue by M. J. Fecher, Ltd., Cuckoo House, Dod Street, London, E.14.

PENETROL.—W. B. Cartwright, Ltd., Rawdon, Leeds, announce the commencement in November of a national advertising campaign in connection with Penetrol, their popular inhalant.

Howards' aspirin tablets.—Howards & Sons, Ltd., Ilford, ask us to draw the attention of chemists to the fact that the bonus offer regarding their aspirin tablets closes on October 31.

Warrick Brothers, Ltd., manufacturing chemists, 6 Nile Street, City Road, London, N.I, are sending out



with certain orders a display screen which has some noteworthy points of interest. It is, as will be seen from the illustration, o f the threefold The centre type. panel has a tray to hold some of the pastilles being advertised at the moment, while above it is a space to insert an appropriate carton. By altering the title-piece the screen is rendered suitable in turn for several of the pastilles for which Messrs. Warrick

As regards design, the artist's intentions have been excellently carried out by the printer.

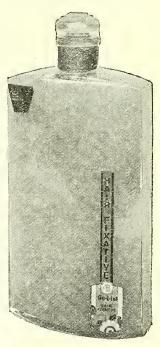
Theosol.—Knoll, Ltd., 38 Great Tower Street, London, E.C.3, inform us that the name Theosol is one of their registered trade-marks, and the sale of any other preparation under that name infringes their trade-mark rights.

The value of advertisement.—Gordon & Gotch, Ltd., Gordon House, 75 Farringdon Street, London, E.C.4, who are specialists in advertising, offer to send a booklet explaining their service in this direction to executives who are interested in the matter.

A GIFT SCHEME.—Colgate-Palmolive-Peet, Ltd., 44 Ranelagh Road, London, S.W.r, are enabling chemists to give a new model Gillette razor to their customers who purchase certain of the company's products. Particulars of the scheme will be sent on application.

June Shampoo Powders.—Saville Perfumery, Ltd., Watford, have adopted a "practical" method of bringing to the notice of ladies their June shampoo powders, concerning which they give some information of interest to chemists elsewhere in this issue.

GOODALL, BACKHOUSE & Co., manufacturing chemists, Leeds, have adopted a new style of packing for their Kubist preparations. As may be gathered from the illustration, the new bottle has convex sides with flat edges, while a glass stopper has re-placed the cork of the earlier package. The gold-coloured cord round the neck, together with the artistic style and positions of the labels, create an impression of quality, an impression which is amply confirmed on using the contents. The hair-fixatents. The hair-fixative is delightfully perfumed and effective. The articles to be packed in this manner—in addition to the hair-fixative —are brilliantine, wavesetting lotion, jasmin perfume, lavender water and bath Cologne lavender.



Cow & Gate, Ltd., Guildford, ask chemists to see that their stocks of the company's preparations are adequate to meet the demand which it anticipated will result from the advertisement campaign due to commence on November 2. Chemists who have not received a letter relating to the new lines offered free to their customers should write to the above address.

SOUTHALL'S COD-LIVER OIL.—Southall Brothers & Barclay, Ltd., Birmingham, send us a sample of their "AI" cod-liver oil, which is manufactured at their factory at Balstad in the Lofotens under ideal conditions, whereby the highest possible proportion of vitamin content is retained. Each bottle bears a copy of a certificate of the pharmacological laboratories of the Pharmaceutical Society of Great Britain.

Christmas gifts. — We referred in our issue of September 13 to the pot pourri jars and Christmas gift lines offered by Potter & Clarke, Ltd., 60 Artillery Lane, London, E.I. The company has now issued a price list in which these products are illustrated in full colours. As we have seen most of the articles depicted it must be said that the production of such a list is a remarkable achievement for a private printing department of a drug house, and is worth writing for.

Marriages

James—Hughes.—At Crescent Presbyterian Church, Newtown, North Wales, on October 1, Thomas James, chemist and druggist, to S. Eleanor Hughes.

Mendus—Prance.—At Ebenezer Calvanistic Metho-. dist Church, Haverfordwest, on October 8, William Morris Mendus, chemist and druggist, to Marjorie Edna

SPEERS—MEGAHEY. — At Second Comber Presby-terian Church, co. Down, on September 24, James Speers, R.D., to Mary Megahey.

Woodward-Wakefield.-At St. John's Church, Bradford, on September 22, Alan Henry Woodward, son of Mr. J. H. Woodward, chemist and druggist, Boston, to Lilian Pauline Enderby Wakefield.

YOXALL—JACKSON.—At Brierfield (Burnley) Baptist Church, on October 8, Thomas Yoxall, chemist and druggist, to Eveline Jackson.

Deaths

ATMORE.—At King's Lynn, on October 8, Mr. Edward Alfred Atmore, chemist and druggist, New Conduit Mr. Atmore, who was a life Fellow of the Entomological Society, and a member of Norfolk and Norwich Naturalists' Society, had made an extensive collection of moths, butterflies, beetles, and other insects of West Norfolk. He discovered several new species, and one was named after him. Mr. Atmore passed the Pharmaceutical Society's Minor examination in 1874.

Carter. — On September 29, Mr. George Harrison Carter, a director, of Carter & Sons (Sheffield), Ltd., manufacturing chemists, Attercliffe Road, aged fifty.

CHAMPION.—At Durlan, Natal, on September 19, Mr. Harold Leslie Champion, of the firm of Reed & Champion, dispensing and photographic chemists, West Street, Durban, aged thirty-eight. Mr. Champion qualified in Great Britain as a chemist and druggist in There was a large attendance of relatives and friends at the funeral, which took place at the General Cemetery, Durban. The ceremony at the graveside was conducted by the Rev. Allan Lea, of Durban, president of the South African Wesleyan Methodist Church, who gave an impressive and touching address, and on behalf of all those present requested the chief mourner to convey to the widow, and to the mother of the deceased, the heartfelt sympathy of all those present. Among the many beautiful floral tributes was one from the Natal Chemists' and Druggists' Association.

Drackley.—At the Pharmacy, Barnham, Sussex, on October 12, after a painful illness lasting many months, Mr. Thomas Eliot Drackley, M.P.S. Apprenticed to his father at Market Bosworth, Leicestershire, Mr. Drackley passed the Minor examination in 1892. Later he was in business in various cities, and everywhere he made many friends, who will remember with gratitude his ever-ready advice and helpfulness. The interment took place in the Catholic cemetery, Slindon, Sussex.

EASTES.—At his residence, 2 Meadow Road, Loughton, on September 25, suddenly, Mr. Benjamin Hanley Eastes, retired chemist and druggist. Mr. Eastes, who was in business before the passing of the Pharmacy Act, 1868, carried on a pharmacy for many years at Loughton. He was a native of Dover.

O'Neill.—At Ennis. recently, Mr. James Anthony O'Neill', L.P.S.I., O'Connell Street. Mr. O'Neill passed the Licence examination in 1904.

RICHARDS.—At Tonypandy, on October 8, Mr. John William Richards, J.P., chemist and druggist, Pandy Square, Tonypandy, aged sixty-eight. Mr. Richards, who was only ill for a few days, had for some years

occupied a prominent position in Rhondda Valley pharmaceutical circles. He was treasurer and deacon of Jerusalem Church, Tonypandy, and was at one time a member of the Pontypridd Board of Guardians. He was made a justice of the peace fifteen years ago.

Rogers.—At Urmston, Manchester, on September 21, Mr. Alfred Rogers, chemist and druggist, aged eightythree.

SENDALL.—At "Ingleforth," Prescott Road, Aughton, Ormskirk, on October 10, Laura, the wife of Mr. C. E. J. Sendall, M.P.S., director of Evans Sons Lescher & Webb, Ltd., Liverpool.

SMITH.—At East Grinstead, recently, Mr. Harold Stanley Smith, chemist and druggist (Perkins & Smith, chemists, 2 Station Road), aged thirty-three.

Wills

Mr. Walter Lord, of 239 Wellington Road North, Heaton Chapel, Cheshire, pharmacist, who died on June 20 last, aged fifty-three, left estate of the gross value of £5,657 7s., with net personalty £2,623 8s. 3d.

Mr. Edward William Loveless, of 20 Station Road, Lower Weston, Bath, chemist and druggist, who died on August 23 last, aged eighty-four, left estate of the gross value of £1,109 6s. 8d., with net personalty £307 2s. 8d.

Mr. Frank Rupert Granville Richards, of Kirby House, Kirby Road, Coventry, chemist and druggist, of Loveitt & Bones, Ltd., Hertford Street, left estate of the gross value of £1,707 6s. 10d., with net personalty £1,583 13s. 10d.

Mr. John Sumner, of Prospect House, Lindon Common Road, Wilmslow, Cheshire, chemist and druggist, who died on February 25 last, aged seventy-one, left estate of the gross value of £6,578 11s. 6d., with net personalty £4,430 13s. 7d.

Mr. Douglas Redvers Brooke, of 12 Wood Street, Swindon, Wilts., chemist and druggist, who died on July 27 last, intestate and a bachelor, aged thirty, left estate of the gross value of £1,332 4s. 6d., with net personalty £1,066 14s. 5d

MR. GEORGE HERBERT BUCKLEY, M.P.S., of 171 Hagley Road, Edgbaston, Birmingham, chemist and druggist, who died on February 19 last, domiciled in England, left estate of the gross value of £11,795 2s. 9d., with net personalty £8,024 is. 9d.

Mr. George Vogt, of Monument House, Kendal, Westmorland, chemist and druggist, proprietor of Edmondson & Vogt, chemists, of 30, Highgate, Kendal, left estate of the gross value of £8,660 15s. 9d., with net personalty £6,934 os. 8d.

MR. RICHARD JAMES REYNOLDS, J.P., of 5 Norman Road, Heaton Moor, Lancs., formerly for many years a representative of The British Drug Houses, Ltd., and a director of Hearon, Squire & Francis, Ltd., who died on July 30 last, left estate of the gross value of £8,048 13s. 1d., with net personalty £7,326 2s. 1od.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

Chât d'Or brand Invalid acid drops L/610. M/1510. Doggo M/1510. Indonal L/710. Metamorphosa (German M/1310. Pantion

lepsy)

N/1410. Redworth's ozonizing fluid Sanitubes D/1510. L/910. Sivan corn plant (London suppliers) H/1210. Stevens' silicon B/810. Sun Ray milk planes

B/810. Sun Ray mill B/1510. Thimitol D/1310. Velvas bottles treatment for epi-

Observations and Reflections

By Xrayser III

Plain Speaking

is necessary in dealing with certain parts of the Departmental Committee's report, and I am particularly pleased to observe the downright fashion in which you have tackled the obvious mental confusion which mixes up the subject of poisons used as medicines with that of poisons employed for industrial purposes (C. & D., October 11, p. 641). Such confusion is quite as apparent in the minds of many chemists and druggists as it is elsewhere, and one of the most important points upon which we should insist is the necessity of making a clear discrimination between toxic substances which are to be dispensed as medicines and others which are mainly supplied for industrial uses. Regulations which may be quite appropriate for the latter are needlessly cumbrous for the former, provided always that none but registered pharmacists should be allowed to handle medicinal poisons and other potent drugs. Given the trained discretion of the pharmacist there should be as little as possible in the shape of mechanical restrictions affecting substances used for medicinal purposes, because there is an undoubted incompatibility between trained human intelligence and mechanical checks prescribed as safeguards. Reliance upon mechanical safeguards may be essential for untrained persons handling poisons, but the education of the pharmacist remains now as ever the surest protection for the public in connection with the dispensing of medicines. We know this and State officials ought to know it, but it seems only too obvious that it was not realised by those responsible for giving expression to the views of the Departmental Committee in its futile endeavour to distinguish between pharmacy and poisons.

Mrs. Irvine

does well to remind us of what chemists and druggists owe to National Health Insurance dispensing as a means of developing the pharmaceutical side of their business (C. & D., October 11, p. 463). Whatever may be thought and said about the adequacy or otherwise of the remuneration we receive for our services as national dispensers, the fact remains that to-day we dispense many millions of prescriptions which would never have been written had pre-insurance conditions continued to prevail, and that nearly two millions of money pass through our tills in payment for the medicine so dispensed every year. Be the profit on this great or small, it comes to us, and the money as a whole passes through our accounts with the enlivening effect that circulating money inevitably must have. I do not think Mrs. Irvine can fairly be charged with exaggeration in enumerating what she describes as advantages enjoyed by us to-day as compared with the position existing twenty years ago. Some of them go far beyond mere commercial advantage, and it is only those of us who have a clear recollection of the conditions prevailing twenty years ago who can fully appreciate the change for the better that has taken place generally. Instead of grousing about the increased business it should be our fixed aim to retain this business, as well as the exclusion right to supply the as well as to secure the exclusive right to supply the medicines for the rest of the nation, who are not covered by the provisions of the National Health Insur-An opportunity to make at least a beginning in this direction should be afforded in connection with the draft Bill, and there ought to be insistence upon those in charge of our interests preparing and pressing acceptance of amendments designed to secure State recognition of our claim to be recognised as the only persons entitled to practice pharmacy in any shape or form.

M. Pattou's Picture

of the conditions prevailing in Belgium (C. & D., October 11, p. 456) may not seem encouraging to further extension of the principles of national insurance in this country, but the moral I draw from what has happened in Belgium is that doctors and chemists in this country should make every effort to get together and work in friendly co-operation. Instead of girding and snarling at each other, we ought to be the best of friends, and for this reason I have noted with interest the coming together of doctors and chemists in an endeavour to clear up outstanding difficulties by friendly negotiation, the result of which makes me hopeful of greater things happening as the representatives of the medical profession gain confidence in our ability to render useful service in the common cause.

Individually and Collectively

we take ourselves too seriously. None of our would-be humorists has caught the spirit which prompted William Hone to publish "The Age of Intellect" in 1819. Hone's proclivity for satiric humour is well known, and this piece of work is a fair specimen of the literature he liked to set abroad. The putative father of the production was "Francis Moore, Physician," the name which appeared on the title page of a famous almanack having a vogue for a hundred years previously, and the frontispiece was drawn by George Cruickshank. "The Age of Intellect" is now interesting, not merely because of the many references to notorious folk of that day, but on account of the view we can obtain of the striking inventions then occupying the attention of the public in general. The book consists of rhyming epistles passing between two friends—Bob Blazon in town to Jack Jingle in the country. The problems and interests of 1819 are not very dissimilar from those of 1930. Among the new notions were:—

Patent Essence of Mustard—benignly bestowing Relief for the pangs, which to chilblains are owing—Or, fighting away all affections rheumatic—(As sorrows are banished by lays operatic), Prepared is by Johnston of Greek Street, Soho; From whom health's balmy comforts fraternally flow! Whose patent machine soda-water produces, More brilliant than even champagne's sparkling juice is.

The editor's comment upon the passage concerning the soda water would strike his readers of that year as a piece of gaseous persiflage. His remarks are: "What a list of aerated mineral waters has this wonderful age of intellect produced! Our ancestors had very few such articles. They only knew of hard and soft water—pump and river water; salt and fresh water; aqua fortis, aqua celestes, aqua mirabilis, and eau de vie. But our modern chemical professors furnish us with water impregnated with almost every kind of saline, mineral, alkaline, or gaseous production which they have introduced to our notice in their new-fangled pharmacopecias. They would, however, confer a greater favour on man if they could extract some water from the rays of the sun and the other celestial bodies. . . . The extract from the sun's rays they might call aqua soli puræ. This would cure the ague and nervous complaints. . . . That from Venus—but I must not enlarge on this subject at present; it would occupy more space than I can afford to it." It is curious that the editor refrained from "enlarging" upon the effects to be obtained from the Cyprian dame and from re-enforcing the astrological tenets of "Old Moore." Perhaps in another hundred years some emanation of Venus may have been captured and turned to account in the betterment of the energies of man.



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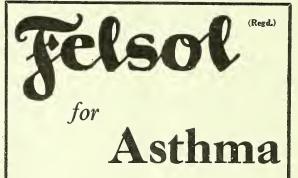
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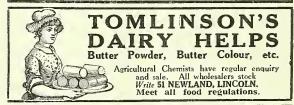
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Editorial Articles

The Public and the Public Analyst

RECENT happenings in the North of Ireland have caused considerable disquiet—and, incidentally, considerable expense—to the grinders of pepper throughout this country. Several samples of pepper were taken and submitted to a public analyst, who reported on a number of them as containing 10 per cent. (in one case 5 per cent.) of turmeric, and summonses were issued against the vendors. nately, before the matter had gone very far (although we believe one or more convictions were recorded), one of the samples that had been ground by Drysdale, Dennison & Co., Ltd., one of the largest grinders of pepper in Great Britain and a highly reputable firm of well over fifty years' standing, was sent to a London analyst (Mr. E. J. Parry), and found to contain less than 0.5 per cent. of turmeric. Applications were made to the Petty Sessional Court to adjourn the later series of cases, for the reserve samples to be sent to the Government analyst. These certificates showed in two cases 1.1 per cent. of turmeric where the public analyst's certificate showed 10 per cent., and 0.2 per cent. where the public analyst's certificate showed 5 per cent. On the cases being called at the

Petty Sessional Court at Enniskillen (C. & D., October 4, p. 422), two trade experts of the highest standing (Mr. J. S. Gray and Mr. H. A. Armstrong) and Mr. E. J. Parry were called as witnesses for the defence, and proved overwhelmingly that for years past the greater part of the white pepper of commerce has been coloured as a legitimate practice with small quantities of turmeric. The caseshaving been properly defended—were dismissed. It cannot be denied that a pepper containing 5 per cent. of turmeric more resembles mustard than pepper in appearance, and could not possibly be sold as pepper; and we cannot grasp how the public analyst could have certified the pepper as he did. Surely these prosecutions should have been frankly withdrawn when it became obvious that the public analyst's certificate could not be supported. · No statement appeared on the certificates of the Government analyst that the traces of turmeric found were objectionable, nor to be regarded as an adulterant. Instead of withdrawing these summonses, the prosecution pressed very hard for convictions on the ground that any trace of turmeric constituted an adulteration. And had not these two cases been properly defended, convictions would probably have followed on the statement of the public analyst that the peppers contained 10 per cent. and 5 per cent. respectively, whereas the actual amounts present were about 1 per cent. and 0.2 per cent. respectively. Surely this is a case where the honest manufacturer requires some further protection than that which he gets from public analysts. An important point of law emerged which would undoubtedly have gone to a higher tribunal if necessary, except for the fact that the Bench decided in favour of the defendants on the merits of the case, so that it became unnecessary to press the point of law. It may, however, come up on a future occasion. The public analyst's certificate stated that the pepper contained 10 per cent. of turmeric, and therefore was not genuine pepper. It has been settled by decided cases that the certificate must contain, on the face thereof, sufficient information to enable the justices to make up their minds on the question of adulteration without going into outside matters. It was submitted that, as the statement of the opinion as to adulteration was based entirely on the presence of 10 per cent. of turmeric, and as it was now proved that only I per cent. was present, there was no statement on the face of the certificate to enable the justices to come to a conclusion. Such statement should thus have been that, as I per cent. of turmeric was present, the public analyst was of opinion that the pepper was adulterated. It was therefore submitted—and, in our opinion, rightly submitted—that the certificate was invalid, and that the justices could not act upon it.

The Decline in Cadmium

THERE has been a particularly sharp collapse in the price of cadmium metal during the last few weeks, down to as low as 2s. 6d. per lb., which compares with practically 4s. at the opening of the year and the high figure of 4s. 1od. in 1928. The depreciation so far this year has therefore been as much as 1s. 6d. per lb., or 37.5 per cent. This rapid slump obviously tends to emphasise the fact that there has been a material change in supply and demand, this being due to the growing excess of supplies which have dominated

the market for some time past. This astonishing growth of world production was commented upon at length in our issue of September 7, 1929 (pp. 285-86), and the expansion began to make itself distinctly felt on the trend of the market, under increased competition on the part of Continental producers against the main larger overseas sources of supply, chiefly Australia and Canada. The severe trade depression has, of course, badly affected practically all non-ferrous metals similar to many other commodities, and cadmium has been no There has been certainly a very large increase in world consumption within the space of a few years, and this caused production to be absorbed to a far greater extent than could have been foreseen only about three years ago, when under a comparatively small output the price remained for a considerable time pegged at about 2s. 3d. per lb., which was the lowest figure recorded since the industry was developed on a larger commercial scale. The current price is now but little above this lowest record, and compares with well over 7s. per lb. within the armistice period. It is well known that the output of the metal has grown more or less in line with the rapid development of the zinc-smelting industry in more recent years, and its growth has been accelerated since more effective means were found by the erection of special plants to treat the residues arising from the smelting of zinc ores, of which considerable quantities had been The cadmium is thus extracted and accumulating. turned into metallic or marketable form. There has been a marked change in the character of the trade demand, since there was ample evidence of a rush of supplies from all sources in recent months probably in anticipation of a falling market. There was a very large increase in the United States production two years ago, amounting to about 480 tons to 837 tons, but consumption there in the last two years had forged ahead so rapidly that considerable quantities were imported from Canada, which country only started production in 1928. Judging from the much larger quantities which have arrived here in the current year there is little doubt that the world production in the early months of this year experienced another increase to well upward of 1,500 tons. Since then, however, it is probable that there has been a check to the Continental output in consequence of the considerable curtailment of operations at zinc smelting plants following the very severe fall in the price of this metal, which is now selling below cost of production. American requirements of cadmium this year have probably been at an appreciably reduced rate, and, owing to the increased quantities coming this side, not only from Canada and Australia, but also from the Continent, buyers are covering their needs from hand to mouth only, and the price may easily yield further so long as the surplus accumulates.

New Books

Jordan, H. W.—How to Form a Company. $8\frac{1}{2}$ in, by $5\frac{1}{4}$ in. Pp. 108. 2s. 6d. Jordan & Sons, Ltd., Chancery Lane, London, W.C.2. [The nineteenth edition of this well-known manual.]

Jordan, H. W.—Converting a Business into a Private Company. 8th edition. 7½ in. by 4¾ in. Pp. 50. is. 6d. Jordan & Sons, Ltd., 116-118 Chancery Lane, London, W.C.2. [The eighth edition of a manual first published in 1922.]

Bowes, P. K. Definitions and Formulæ for Students (Light and Sound). $4\frac{1}{4}$ in. $+5\frac{2}{4}$ in. Pp. 36. 6d. Pitman & Sons, Ltd., Parker Street, London, W.C 2. [One of a series of booklets intended to provide students with necessary definitions and formulæ in a convenient form.]

Pharmaceutical Society of Ireland

Annual Meeting

The annual meeting of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on October 6, Mr. F. J. Fitzpatrick (president) presided. There were also present:—Mr. Denis J. Nugent (vice-president), Dr. Michael Ryan (treasurer), Dr. J. A. Walsh, Miss Margaret Kieran, Miss Kathleen Fogarty, Sir Thomas Robinson, Messrs. D. Warwick, T. I. Keogh, Thomas R. Bourke, Donald W. B. Boyd, M.A., Gerald V. Boyd, Wm. Jones, James Duggan, H. J. Sumner, Joseph Gorry, Michael J. Kieran, Eugene H. O'Sullivan, Gerald Ryan, John Gleeson, Patrick C. Cahill, F. J. Robinson, Gerald O'Neill, John J. Smith, P. A. Brady, M. J. O'Callaghan, P. J. Killacky, J. A. O'Rourke, G. W. Irwin, M. Smith, P. D. Larkin, J. J. Roche, and J. Ryan. Mr. James J. R. Kerr (registrar) was in attendance. Mr. Fred Storey (president of the Pharmaceutical Society of Northern Ireland), Mr. Samuel Hogg, Belfast, and Mr. Alfred Arthur Brunker, Dublin, sent apologies for non-attendance.

ELECTION OF COUNCILLORS

The election of seven members on the Council resulted in the return of six of the outgoing members and of Mr. Thomas J. Smith, a new member. One of the retiring members, Dr. J. A. Walsh, did not seek re-election. The registrar read the report of Messrs. John J. Roche and P. A. Brady, scrutineers of the ballot. The voting resulted as follows:—

Mr.	T.	J. Smith		 	234
Mr.	Ρ.	Brooke-Kell	ly	 	233
Mr.	Ja	mes McCorm	ack	 	225
Mr.	Ď.	Kieran		 	215
Mr.	D.	Warwick		 	212
Mr.	Ρ.	J. Fielding		 	209
		T		 	177
Mr.	Ι.	Fitzpatrick		 	133
		V. McKeeve		 	118
		Gubbins			112

The president declared the first seven elected.

STUDENTS' COMPLIMENT TO PRESIDENT

The REGISTRAR said he had received the following letter from a number of students and past students of the Society, who wished to mark their appreciation of what Mr. Fitzpatrick had done for the benefit of the students during his four years of presidency:—

Kindly hand the enclosed draft (£8) to Mr. F. J. Fitzpatrick, to be given by him to the secretary, Benevolent Fund. This cheque is the proceeds of a fund (subscriptions limited to 2s. 6d.) organised by a number of students and ex-students in appreciation of Mr. Fitzpatrick's work for them during his period of office as president of the Pharmaceutical Society of Ireland.

The President said he wanted to express his most heartfelt thanks to the students. This appreciation overwhelmed him. He hoped that their only association with the Benevolent Fund would be when they gave their subscriptions to it. He was very grateful to them. (Applause.)

PRESIDENT'S ADDRESS

The President said it had not been his custom to inflict any formal address on the members at the annual meeting. He had always felt that this was an occasion on which the members of the Council, like the directors of a company, had to give an account of their stewardship and submit to the criticism of the members and listen to their faults or otherwise. This was the fifty-fifth year of the Society's existence; it was the fourth year in which he had the privilege of presiding at the annual meeting; and it would be the last occasion on which he would do so. In giving the members the result of the last year's work he would like to be briefly retrospective, and give an account of his own stewardship during the time for

which the Council had elected him to the presidency. The president then submitted the following statistics, which have been tabulated:—

STATISTICS		
The Registers		
	1929	1930
Pharmaceutical Chemists	1,430	1,444
Pharmaceutical Assistants (including		
249 who have become Pharmaceutical		
Chemists)	392	424
Chemists and Druggists	18	16
Registered Druggists (including 79 who		
have qualified as Pharmaceutical		
Chemists)	761	744
	2,601	2,628
These figures are approximately		2,020
Subscribers		
	1929	1930
Members	472	479
Associate Druggists	67	69
m1 0	539	548
These figures are approxim	nate.	

The deaths recorded included the following: Pharmaceutical Chemists: Thomas Green, Frederick C, Hayes, B.A.; J. Tyrie Turner, Wm. Dowling, J. Black and D. Baxter.

Registered Druggist: R. Barry.

Forty-three new members were elected during the year and one Associate Druggist.

	Ex	AMINATIO	ONS		
	P	reliminar	11		
	-		J	1929	1930
Candidates				53	82
Candidates rejected				29	59
Candidates passed				24	23
Candidates registered	on	Certific	ates		
from other bodies				30	35
				5.4	5.0

During the past twelve months one Preliminary candidate passed with honours: Patrick Duffy, 72 per cent.

During the past twelve months three candidates passed with honours: Maureen Fox. Michael Smith, D. Reddy.

honours: Maureen Fox	, Mich	ael Sm	ith, D.	Reddy.	
Pharmaceu	tical 2	4ssistar	t Exan	nination	
Candidates Candidates rejected	• •		• •	1929 43 18	1930 52 16
Candidates passed		• •		25	36
Register	ed Dri	uggist E	lxamino	tion	
Candidates Candidates rejected	• •		• •	1929 30 14	1930 25 8
Candidates passed .	E_{α}	· · ·		16	17

The following change took place in the Board of Examiners during the twelve months: Mrs. G. Murphy, B.A., was elected Examiner for the Preliminary examination in place of Mr. Devane, whose term had expired.

THE SCHOOLS

The Students attending the Society's schools numbered :-

		1929	1930
Theoretical chemistry	 	52	61
Practical chemistry	 	53	105
Botany and materia medica	 	46	50
Practical pharmacy	 • •	94	52
7			
		245	268

Prizes Awarded

School of Chemistry.—First prizes (Practical): Mr. L. Colleran, 85 per cent.; Mr. M. Byrne, 95 per cent.; and Miss P. Dillon, 80 per cent. Second prizes: Miss C. Donohue, 80 per cent.; Mr. S. Cooper, 90 per cent.; and Mr. G. G. Kirwan, 75 per cent.

First prizes (Theoretical): Mr. D. Fitzpatrick, 80 per cent.; Mr. M. Byrne, 90 per cent.; and Miss M. Rogan, 83 per cent. Second prizes: Mr. P. Brady, 70 per cent.; Mr. E. J. Connolly, 83 per cent.; and Mr. J. Gilseman, 75 per cent.

School of Botany and Materia Medica.—First prizes (Botany):
Mr. D. F. McCarthy, 75 per cent.; and Mr. H. Corrigan,
85 per cent. Second prizes (Botany): Miss P. Dillon, 70
per cent.; Miss M. M. Brady, 70 per cent. First prizes
(Materia Medica): Mr. D. F. McCarthy, 82 per cent.; Mr.
M. Byrne, 98 per cent. Second prizes: Miss P. Dillon, 70 per
cent.; Miss M. M. Brady, 90 per cent.

School of Pharmacy.—First prizes (Pharmacy): Miss M-O'Halloran, 60 per cent.; Miss Buttimer, 83\(\} per cent.; and Mr. J. Leahy, 85 per cent. Second prizes (Pharmacy): Mr. M. J. McNamara, 80 per cent.; Mr. G. Murphy, 57 per cent.; and Miss E. Murphy, 80 per cent.

At the annual meeting, held in October 1929 Mr. T.

Costello was elected a member of the Council.

On the completion of his four years' presidency Mr. FITZPATRICK said he would like to pay a tribute to the Council for the support he had received. When he first took the chair in 1926 there were 364 members of the Society; the actual number to-day was 501. The investments of the Society in 1926 were £3,516; the investments to-day were £5,700. In addition, they had equipped the schools and the office. Everything had been done that could possibly have been done to bring their promises and schools up to detail In 1926 the their premises and schools up to date. In 1926 the capital account stood at £5,425; to-day it stood at £7,185. The pharmacy class, a long-felt want, was started two years ago. There were ninety-five students for the first year and fifty-two for last year. The class showed a profit of £72 for the period over all expenditure—capital and running expenses. With the help of the Council, who were keenly interested, they now had a Benevolent Fund which amounted to £761. He would like that they should set themselves to work to realise an ambition of his of having a fund of at least £1,000. They might think, when they saw the office hours fixed at 10 to 4 that Mr. Kerr had a very soft appointment. But he had known Mr. Kerr to be in the office until II o'clock at night, and he himself had been there very often until II o'clock, although his office was a purely honorary one. To give them some idea was a purely honorary one. To give them some idea of the work that was done in the office he might mention that 2,588 letters had been received last year, 5,496 letters, 564 registered letters and 120 statutory letters had also been sent out. After these statutory letters had been despatched six or seven branches which had been carried on illegally throughout the country were closed up. and quite a dozen others procured qualified chemists to put their places in order. At the present moment to put their places in order. At the present moment there was a call for qualified men. He could claim, when leaving the chair, that he was leaving Irish pharmacy in a more prosperous and progressive condition than that in which he found it—better financially, and he believed, above all, with a better morale. He thanked them. (Applause).

FINANCIAL STATEMENT

Dr. Ryan (treasurer) submitted a statement of

The President, referring to the decrease in law costs, said that Mr. Kerr, who was working in close co-operation with the Civic Guards, had been able to save the Society some £300 or £400 in law costs. This system had proved more effectual than the former one. Society had only ordered one prosecution for the year, and it had not yet come off owing to Mr. Meeke's

On the motion of Sir Thomas Robinson, seconded by Mr. Warwick, the statement of accounts was adopted.

APPRECIATION OF THE PRESIDENT'S WORK

Sir Thomas Robinson proposed a vote of thanks to the president for his services during the past four years, and particularly during the last year. Mr. Fitzpatrick,

he said, was a man of most remarkable energy, and the attention he had given to the Society must, he thought, have far surpassed the attention that he had given to his own private business. It would be easy, of course, to criticise the figures of last year with reference to the deplorable number of failures. He was in hopes that that state of affairs would gradually mend itself. There was nothing that rejoiced the Council more than to have a fine big percentage of passes. The large number of failures had been a matter of regret; and so much had the Council been impressed by it that, under the guidance of Mr. Fitzpatrick, they had inspected the conditions of their examination to make sure that these conditions were not too onerous; and they had found, after consultation with the examiners, that the examination was of the right kind. As the president had intimated his intention of retiring, he thought that it was only right that they should pay this little tribute to his wonderful energy. He proposed that a very warm vote of thanks to Mr. Fitzpatrick be placed on the minutes of the Society for his services during the past four years. (Applause.)

Mr. D. J. Nugent (vice-president) said that it was to Mr. D. J. Noteral (vice-president) said the vote of thanks. As the president had said, the Society had advanced in every way since he took the chair. They had more money—a very essential matter—and their schools were better equipped. He did not think that anything he could say would be sufficient to thank the president for the wonderful work that he had done. had great pleasure in seconding the vote of thanks.

(Applause.)

Mr. H. J. Sumner said he was sorry to throw the apple of discord into the meeting. He had a strong objection to the proposer and seconder of the vote of thanks. What else could members of the Council say except that the president had worked well! It was fairly well acknowledged that spectators saw most of the game. He thought he was one of the spectators in the present case, and that it should have been left to those spectators to propose and second the vote of thanks to the president. If he had had the privilege of proposing it he would have said everything that Sir Thomas Robinson had said, though he could not have said it in such nice words, nor could he have seconded it in such eloquent language as Mr. Nugent had em-They, the outsiders, really did thoroughly appreciate all the good work that the president had done. He thought he spoke for a good many members of the Society when he said that they would like Mr. Fitzpatrick to hang on until the Pharmacy Bill was passed. He wanted to support everything that Sir Thomas Robinson and Mr. Nugent had said, and to assure Mr. Fitzpatrick that the ordinary lay members of the Society admired very much what he had done in their interest during his four terms of office. plause.)

The President, acknowledging the vote of thanks, which was adopted amidst applause, said he was very Thomas Robinson, had said of him. He was sure he did not deserve them. He had only endeavoured to carry out his duty. It was to him a labour of love. He had taken the greatest possible interest in the Society, and he was He had taken the proud to be able to undertake the work which could never have been carried out without the absolute co-operation of the Council. He had the confidence of the members of the Council, and they had allowed him pretty free scope; and they had worked with the one object—to bring their Society to the front, to increase its membership, to improve their schools, and to remove all cause of criticism from the examinations. As Mr. Nugent had said, the work was now pretty well routine. He felt that he had monopolised the chair too long. Though he would not be in the chair, he would still be a member of the Legislation Subcommittee; and any knowledge that he had acquired during the last four years would always be at the disposal of his colleagues. Mr. Ferrall was the dominating force behind the Council, as he hoped Mr. Kerr would be in the years to come. Mr. Kerr, himself a pharmacist, had acquired a special knowledge of the work. He was positive that

things would move in the future as they had moved in the past. He offered his most grateful thanks for their kind remarks. (Applause.)

APPRECIATION OF OFFICIALS

Mr. Larkin proposed a hearty vote of thanks to Dr. Ryan for keeping the purse for the past twelve months. He had, he said, been tight enough with the strings sometimes, but they had got the best of him. The balance sheet showed how careful he had been during the year.

Mr. Roche seconded the vote of thanks, which was

adopted unanimously amidst applause.

Dr. Ryan, acknowledging the vote of thanks, said he could assure them that the work was a pleasure to him. Mr. William Jones proposed a cordial vote of thanks to the Registrar, who, he said, had performed his duties very well during the last twelve months.

Mr. J. A. O'ROURKE, seconding the vote of thanks, said everybody recognised how much Mr. Kerr had done

to make things easy for the students.

The Registrar, acknowledging the vote of thanks, which was adopted amidst applause, asked the members of the Society to have a little confidence in him. He received complaints about breaches of the law by persons who were carrying on business illegally, and these complaints were sent anonymously. He considered a complaint received in that manner an insult. If a person could not trust him, let that person not send him a complaint. If a person who had reason to complain sent a complaint to him to the office, if he was satisfied that it was a genuine complaint he sent an inspector, and he reported the matter to the Law Committee. He never, under any circumstances, disclosed to the Law Committee, or to anybody else, where his original information came from. That was absolutely confidential between the person complaining and himself. could trust him absolutely. If they felt they could not trust him, well, let them not send him anonymous letters. (Applause.)

The President said he thought the registrar's remarks had been brought about by the fact that he had

received three anonymous letters in one day.

Council Meeting

At the monthly meeting of the Council held at 67 Lower Mount Street, Dublin, on October 14, the following officers were elected for the ensuing year:—

President, Mr. Denis J. Nugent, P.C.; Vice-President, Dr. Michael Ryan, P.C.; Treasurer, Mr. Patrick Brooke Kelly; Auditor, Mr. R. J. Kidney.

LAMINARIÆ: KELP AND IODINE

An interesting paper on "Laminariae: Kelp and Iodine" was read by Mr. George C. Hewson, F.C.S., M.P.S.I., at the annual meeting of the Society. Mr. Hewson acted as Kelp Analyst for the Department of Lands and Fisheries of the Irish Free State in the counties of Donegal and Sligo. The lecture was illustrated by practical demonstrations.

Laminariæ: Kelp and Iodine

By George C. Hewson, F.C.S., M.P.S.I.

[ABSTRACT]

From a commercial point of view, the marine flora of our western coast has a wide range of uses. I have brought here specimens of some of the species as found on the west coast of Ireland. Among these are Laminaria Digitata, Laminaria Saccharina and Laminaria stenophylla, Fucus serratus, Fucus nodosus, Fucus canaliculatus and Fucus vesiculosus. The first-named Laminaria Digitata, by far exceeds the others in its iodine vield, and as our interest this evening is mainly confined to this alga, a summary of its botanical characteristics may not be out of place.

The thallas is made up of three distinct parts:—A branched holdfast; a solid, tapering, cylindrical stem of varying length and up to an inch in diameter; and a deeply divided coreaceous blade. A small-celled meristem,

situated at the apex of the stalk, causes the renewal of the blade in the spring of each year. The new frond appears at the base of the old one. This alga and Laminaria Saccharina (the blade of which presents the appearance of a broad ribbon) and Laminaria steno-phylla are always submerged. Either of two methods may be employed for their collection. One consists of cruising along the shore in a depth at from ten to twelve feet of water, and detaching the alga from its habitat by means of long metal-hooked rods. second simply relies on autumn high tides and winter storms. This constitutes what is known as "drift Considering the potentialities of the industry, it is not unlikely that a considerable number of inex-perienced kelp-makers will undertake the collection and burning of the weed. In their own interests, therefore, the identification of the proper algæ is essential. The following characters will aid identification of the Fuci:— The Fucus serratus (serrated wrack) may be recognised by the toothed margin of the frond. The Fucus nodesus (knotted fucus) presents a nodular appearance, with large, remote vesicles, while in the Fucus vesiculosus (bladder wrack) the vesicles are mostly in pairs, and the Fucus canaliculatus (channelled fucus) has channelled vesicles. These algæ are commonly met with on rocky shores between low and high tide levels, and should be rejected if iodine is the desideratum. Moreover, a very important point frequently overlooked is that in railing or shipping kelp the poor quality carries the same overhead freight as the first-class variety.

The rods or stems, which are available from September onwards, and the frond, which comes in May, require different treatment. The correct method of harvesting the rods is to pack them loosely and protect from rains. On the other hand, the frond must be airdried before stacking, and covered with a thatch, otherwise decomposition will set in. The burning of the weed, converting it into kelp, is the next stage. It seems such a waste of honest labour that the kelper, after collecting and carefully storing excellent alg.e, should frustrate his best efforts by bad burning. The difficulty is that he confuses specific gravity with weight, and, consequently, the weed is burned into a hard slag, with considerable loss of iodine. If it were burned at a much lower temperature, and reduced to a loose ash (resulting in a higher iodine content), a better price would be secured It is now possible that, by utilising the Shannon power, one could produce a good loose char by subjecting the weed to a controlled heat in suitable retorts. Stanford's experiments with ordi-nary turf fires and iron retorts yielded satisfactory results. Although Stanford preferred the wet process of extraction, his method of destructive distillation has definite advantages. But it is doubtful if, from an definite advantages. But it is doubtful if, from an economic standpoint, the wet process would be acceptable to-day. He burnt four tons of tangle in a kiln, exercising great care. An equal weight of identical weed was carbonised in a retort. The amount of kelp produced from the kiln was 15 cwts. and char from the retort was 30 cwts. More important still, however, the yield of iodine from the first method was 13.27 lb., whereas the char returned no less than 29.25 lb. Stanford proved in addition that the wet process of extraction (which in reality is ordinary maceration) gave a slightly greater yield of iodine and also a larger pro-portion of salts. But here additional cost must be considered. I suggest, therefore, that, following Stanford's char process, and using the Shannon power actually on

the shore, a char of very superior quality must result. The vendor deposits his kelp, and the chemist proceeds to take samples from each bag. The varieties which may be met with, even from one fire, are remarkable. A fair average sample is taken, and the lumps reduced to fine powder. After mixing thoroughly, 5 grammes are weighed and introduced into a 250 c.c. flask which is half filled with clean water. The mixture is shaken for a few minutes. The flask is then filled with water to the 250 c.c. mark, and again well shaken. 25 c.c. are filtered off into a test tube and treated with 5 c.c. of carbon disulphide and three drops of nitro-sulphuric acid. The tube is corked, vigorously shaken, and left standing. The carbon disulphide, which separates and lies at the bottom of the

test tube, now exhibits a colour varying from mauve to purple, the intensity of the colour depending upon the amount of iodine in the sample taken. The next step—a most important one—is to compare the colour with that of a set of standards. The percentage of iodine in these varies from 0.3 to 1.2. So far, it is clear that, when using the colorimetric method, one must rely on one's own judgment. I do not consider it very satisfactory, and it is certainly unscientific. The better method is that which relies on quantitative analysis. The following is an outline of the procedure:—ro grammes of powdered kelp are treated with 250 c.c. of water, as in the last method. 25 c.c. are filtered off, and this solution is placed in a separator. Six or seven drops of nitro-sulphuric acid are added, which causes the iodine to be thrown out of its combination, and 25 c.c. of carbon tetrachloride are added, which takes up the free iodine on agitation, and the carbon tetrachloride has then assumed a mauve colour. This is separated from the watery layer into another separating funnel, and washed with clean water. It is then run into a suitable container—a small, glassstoppered bottle, for instance—and an equal volume of water is added, and this is tested against a N-100 solution of sodium thiosulphite. Starch mucilage may be used as an indicator towards the end of the reaction. When the colour is completely discharged from the carbon tetrachloride the reading is taken on the burette, and the percentage of iodine in the sample calculated. (The lecturer demonstrated both methods.)

The extraction of iodine from kelp on a commercial scale is the last stage in the process. Large containers, holding considerable weights of kelp, are treated with water. The kelp is exhausted, and after the removal of various salts by evaporation, the mother liquor is treated with sulphuric acid, which precipitates sulphur. The acid solution is transferred to retorts provided with condensers, manganese dioxide is added, and the iodine

comes over on the application of heat. Though iodine manufacture is as yet in its infancy in this country, we may be optimistic about its development, and not only may we look forward to a time when native iodine and its salts will supplant the imported article, but also we may one day rejoice in the successful exploitation of another of our natural resources by achieving a substantial export market for it.

The President said their thanks were due to Mr. Hewson for his very interesting lecture. He had come all the way from Ballina to tell them about this latest

industry.
Mr. P. D. Larkin proposed that their heartiest thanks

Mr. P. D. Larkin proposed that their heartiest thanks be given to Mr. Hewson for his very interesting lecture. He was sure that the production of iodine from kelp would become a great industry in the country.

Mr. M. J. Kieran, seconding the vote of thanks, said he had heard of Mr. Hewson's brilliancy when he was studying pharmacy. This was the first occasion on which he had heard him speak, and he considered his lecture a treat his lecture a treat.

The President, in putting the vote of thanks, said he hoped Mr. Hewson's lecture would be the forerunner of very many other interesting ones during the coming winter. Last year he had quite a number of lectures promised him, but owing to the failure of the electric light installation they had to concentrate three in the last month. He hoped they would have better success in the coming period.

Mr. Hewson, responding, said that anything he had done of a more or less scientific nature had been directed to the one object of uplifting Irish pharmacy, and focussing attention on the work of the Pharmaceutical Society and the splendid training which led up to the examination for licentiates. It was regrettable how little the public realised or appreciated that training. He thanked them. (Applause.)

Insurance Act Dispensing

Record of Matters concerning Chemists' Interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Exeter.—At a meeting of the Exeter Insurance Committee, recently, it was reported that the doctors were in favour of the new National Formulary, and the Committee decided to adopt it, subject to the approval of the Medical Benefit Subcommittee. The Committee also approved the definition of drugs as reported upon by the Advisory Committee.

Isle of Wight .- At a recent meeting of the Isle of Wight Insurance Committee, the Pharmaceutical Service Subcommittee reported that the analyst's reports on eight samples analysed during the December and March quarters were satisfactory. Five samples were taken for analysis during the June quarter, three being satisfactory and two unsatisfactory.

Oldham.—At a meeting of the Oldham Insurance Committee, held recently, the Pharmaceutical Service Subcommittee reported that four cases of inaccurate dispensing had been notified. It was recommended to issue cautions in three of the cases, and to inflict a penalty in the other. In the case of a deficiency of liquefied carbolic acid, the manager of the firm stated that he had personally dispensed the test prescription early in the morning of a cold day. The quantity required was small, and the acid was contained in an amber bottle, so he had not observed that, owing to the keen frost, a considerable degree of crystallisation had taken place.

Oxford.—At a meeting of the Oxford City Insurance Committee, held recently, the Finance Subcommittee recommended the payment to chemists of £285 for

March, £235 for April, and £233 for May. Statistics of prescriptions given by Mr. H. C. Goodall included the counties of Berks, Bucks, Oxon and Rutlandshire, the cities of Birmingham, Oxford, Reading and Stoke. average number of prescriptions in 1929 per insured person was very satisfactory when compared with those of other areas dealt with by the bureau.

Staffordshire.—At a recent meeting of the Staffordshire Insurance Committee, it was reported that during the quarter ended March 31 the number of prescriptions issued was 256,071, compared with 314,908 in 1929. The total cost, including dispensing fees, was £8,164, against £10,124. The Medical Benefit Subcommittee recommended that the Insurance Committee approve a list of substances considered not to be drugs, and inform the Minister of Health that in their opinion a chemist should not be entitled to supply or to receive payment for a non-scheduled appliance or any substance or preparation considered by the Insurance Committee never to be a drug, provided that the chemist had been previously informed of the Committee's decision.

NORTHERN IRELAND

Co. Armagh.—The first meeting of the Area Committee of co. Armagh pharmacists in connection with medical benefits under the National Health Insurance Act was held in Armagh on October 8. The following appointments were made: Chairman, Mr. A. C. McBride; Pharmaceutical Services Committee, Messrs. F. A. Ferguson, Lurgan; W. F. Pedlow, Portadown; and J. W. Gray, Armagh; Joint Services Committee, Messrs. R. Kerr, Lurgan; and A. C. McBride, Armagh; Secretary, Mr. A. L. Martin, Portadown

Oregon Peppermint

Some fifteen years ago peppermint cultivation was started near Eugene, Oregon, with the English variety known as black Mitcham, a vigorous plant with a dark purple stem and deep green broadly lanceolate slightly dentate leaves. This plant produces a bland oil. The first distillation of oil was found to be of excellent quality with high menthol and ester content, and after a short while the peppermint industry had become established and gave indication of steady growth. What has been done by growers and distillers in the North-West is summarised in an article in the "American Perfumer and Essential Oil Review." The Oregon crop of 1930 is estimated to be about 130,000 lb., and the area planted in the State 3,000 acres. Peppermint has been planted in the adjoining State of Washington, and the total crop for both areas is put at 150,000 lb. Quotations in August were at from \$1.80 to \$1.90 per lb. as to quantity. Well cultivated fields in the Pacific North-West produce from 40 to 80 lb. per acre, and production costs (growing and distilling) are put at

about \$1.50 per lb.

The Oregon State Agricultural College have made a careful study of mint production and they believe that even at the present low prices mint growing is profitable, since cattle and horses will eat the straw. Sheep thrive on it, but it cannot be used as fodder for dairy cattle, as the milk is tainted. A reference to American peppermint cultivation was made in the $C \cdot & D$., 1927 II, 125, when two or three years ago a runaway market caused will speculation in the Pacific North-West in peppermint oil. A large acreage was then planted, but subsequently a much lower market discouraged many subsequently a much lower market discouraged many new growers, who dropped out. Planting out is done in March or early April. The harvest does not ordinarily begin until the "oiling up" process is accomplished. This is complete when minute globules of oil are found clinging to the underside of the leaves. Hot, dry weather generally completes this process. The harvest in Oregon generally begins in the middle of August and care is taken not to cut too much at one time, since it must be lightly cured, and if allowed to lie too long the leaves break from the stalk. The mint is hauled from field to still generally in the early morning while the dew is on it. The wet leaves adhere to the stalks and undue loss of foliage is prevented. Some of the Oregon lands produce an excellent oil as far as flavour is concerned, but although high in menthol content the ester content is low, one analysis showing 62.21 per cent. of menthol and 6.99 per cent. of ester.

New Zealand Kauri Gum

A RETURN showing the quantity of kauri gum received at Auckland from the gum fields for the year ended at Auckland from the gum fields for the year ended March 31, 1930, and the export figures over the same period has been issued. The gum received from the fields amounted to 4,628 tons, an increase of 816 tons over last year's total. The largest monthly quantity was received in March, when 563 tons were sent into the store, and the smallest was the December total, which amounted to only 368 tons. For the period which amounted to only 268 tons. For the period ended March 31, 1929, there was a total of 3,812 tons, and a total of 3,912 tons for the similar period in 1928. During the year 4,941 tons of gum were exported, valued at £264,452, an increase of 375 tons on the period ended March 31, 1929, when 4,566 tons were exported. The greatest amount was exported to the United Kingdom, which received 2,425 tons, valued at £117,677, while the United States accounted for 1,967 tons, valued at £127,723. A total of 549 tons was sent to Germany, Canada, Australia, Belgium, France, Japan and the Netherlands. In the previous year the United States imported 2,337 tons, and the United Kingdom 1,504, of the total of 4,566 tons. Arrangements have been concluded by the Kauri Gum Control Board to send Mr. J. Pearson Ward to America to study the question of the use of kauri gum in various industries, and particularly in regard to the clean chip products.

India's Drug Manufacturing Prospects

THERE is serious talk in India in regard to the manufacturing of drugs in the country from indigenous plants. Though this is in the ordinary course of industrial growth, still it must be admitted that some impetus has recently been given by the movement for the boycott of foreign goods. The larger firms of the country which already manufacture drugs, such as the Bengal Chemical and Pharmaceutical Products Co. and the N. Powell & Co., of Bombay, are extending their plants on all sides of their business, hoping to be able to supply the new demand for Indian-made products. In some provinces proposals are under consideration to import one or two German or American experts to direct the Indian industry. How far these proposals materialise is to be seen.

That India's natural resources are great in this respect annot be doubted "The Himalayas can supply cannot be doubted medicines to the whole world provided there is systematic cultivation on a large scale of definite pure species and careful preservation of their seeds from year to year." So observes Mr. H. D. Sen in a recent article.

OPIUM AND QUININE

So far as the two drugs opium and quinine are concerned, there is systematic manufacture in India which is subsidised by the Government of India. For opium there is a central factory at Ghazipur, and the factory for the extraction of quinine is located in Madras. Mr. Sen points out, the opium factory at Ghazipur deals principally with the manufacture of provisional and excise opium for home and local consumption, and recovers a small amount of alkaloids from the waste and adulterated opium which is found unsuitable for general But vigorous attempts are made to manufacture the alkaloids on a large scale in order to give adequate supplies to the medical stores in India.

The system of manufacturing quinine in India is already well known. Systematic research, however, has not yet been taken up to discover the active principle at work in connection with such alkaloids as atropa belladonna, aconite, nux vomica, tobacco, datura, cannabia sativa, etc. It is recognised that the only chemical research of value will be that undertaken in co-operation with the botanists and bacteriologists. Sen is of emphatic opinion that the drug problem in India could be tackled to greater advantage if there were a regular State plantation or Government-subsidised plantation based on a system of bonus to cultivators, and having factories attached, equipped with plant for the extraction of chemical products. In addition to the above, there should be an agricultural research section to study the best conditions for the accumulation of alkaloids in the plant, and a co-ordinated botanical section for the storage and distribution of pure

The technical research for each drug may be divided into (1) preparation of extract and tincture according to the requirements of the British Pharmacopæia for supply to the medical stores of India and to the private firms of the pharmaceutical chemists and druggists in India and abroad; and (2) manufacture on a large scale of pure alkaloids in a crystalline form, and some of their important synthetical derivatives which have market value.

These views expressed by Mr. Sen have evoked considerable discussion in many circles in India, and it is generally thought that action on the lines suggested by him may be useful in starting an effective drug manufacturing industry in India.

A HNGLE.—A correspondent of "The Morning Post" has sent that paper the following rhyme, repeated to her by the late Dr. Stubbs, Bishop of Oxford, more than seventy years ago:-

"Sitting in a shady grove, With my Julianna, Lozenges I gave my love, Ipecacuanha."

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

28 Essex Street, W.C.2, October 16

There is little actual change in the position governing pharmaceutical chemicals, a number of products continuing easy; there is, however, less evidence of price-cutting in aspirin, hexamine and phenazone, the tone being steadier. Milk sugar is still subjected to keen competition, Cream of tartar is fairly steady, and tartaric acid is irregular. An international convention has been formed in strychnine and salts. Camphor flowers have been reduced by 2d, per lb. Among essential oils business continues on a hand-to-mouth scale, with no improvement in prices. Star anise is easier for forward shipment. American peppermint is rather unsteady, and lower prices for Japanese dementholised have been eabled from Japan in an endeavour to depress the price to bo paid to growers for new crop. Clove is firmer, in conjunction with the spice. Spanish cucallyptus is easier owing to further depreciation in the peseta. West Indian lime is very firm, and Sicilian lemon is unchanged at last week's parity. Among drugs, Matto Grosso ipecacuanha remains very firm in view of the Brazilian situation, and hydrastis has a firmer undertone. Kordofan acacia gums are about steady for shipment. Menthol is unchanged on the spot, but forward prices from Japan are being depressed. Among the fived oils, a further number of reductions have taken place, including acid oils, English castor, cocomut and linseed; turpentine is slightly easier on balance. In the mineral oil section, benzol shows a further slight reduction, and slightly higher prices are again quoted by makers of solvent naphthas. Lubricating oils are easy. Among the industrial chemicals, business generally is by no means satisfactory, being limited in size and keenly competed for. Potassium and sodium chlorates are much easier. Convention prices for lead products (red lead and dry and ground in oil white lead) have been further reduced. In eoal-tar products, naphthalene and betanaphthol are easier.

Higher	Firmer	Easier	Lower
Cloves (Zan.) Juniper berrics Kola Strychnine and salts	Clove oil Hydrastis (c.i.f.) Naphthas, solvent Orange pcel Steadier Aspirin Hexamine Phenazone	Anisc oil, star (c.i.f.) Benzols Betanaphthol Cotton oils Linseed oil Millet seed Naphthalene Pimento Shellac Turpentine	Acid oils Camphor flow. (Eng.) Castor oil (Eng.) Eucalyptus oil (Sp.) Menthol (c.i.f.) Peppermint dementi (Jp., c.i.f.) Pot., chlorate Resin (Amer.) Sodium chlorate Wax, carnaubs

Crude Drugs, etc.

ALGES.—Curação in cases remains firm at 110s, per cwt. c.i.f. for t.q.; spot values range from 115s, to 135s, as to quality. The landings of aloes in London during September amounted to 47 cwt. and the deliveries to 116 cwt.

The exports from the Union of South Africa during June amounted to 102,516 lb. (£790), against 97,251 lb. (£755) in June 1929. During the six months ended June 30, 1930, the exports were 380,570 lb. (£2,958), against 670,094 lb. (£4,466) for the corresponding period of 1929.

ANTIMONY.—There has been a somewhat better demand for Chinese regulus on the spot at about £26 10s. In the meantime, e.i.f. business has been neglected and terms have been easier at around £24 15s. English high-grade regulus remains at about £46, but ordinary good brands are obtainable at renewed concessions down to about £36. Chinese crude is quite nominal at about £22 and Chinese white oxide is £33 per ton on the spot.

ARECA.—Good bold sound Ceylon on the spot is scarce and worth about 45s. per cwt. Fair-sized purchases of poor quality have been made from Hamburg at 33s. to 37s. 6d. per ewt. c.i.f.

BALSAM TOLU is firm, offering at 3s. 3d. per lb. c.i.f., and on the spot a limited quantity can also be had at 3s. 3d.

BUCHU.—The exports from the Union of South Africa during June amounted to 27,543 lb. (£963), against 10,564 lb. (£371) in June 1929. During the six months ended June 30, 1930, the exports were 101,577 lb. (£3,447), against 160.763 lb. (£5,823) for the corresponding period of 1929.

CADMIUM.—In view of the continued restricted demand the tendency is still downward. Spot prices for fair-sized lots are 2s. 5d, to 2s. 6d, per lb., but these figures would be shaded on account of the keen competition reported from the Continent.

Camphor (refined).—English refined flowers (B.P.) have been reduced by 2d. per lb., refiners quoting 3s. per lb., 28 lb. at 2s. 11d., and one-cwt. lots 2s. 10d. per lb. Japanese has advanced at the source, and e.i.f. prices are as follows: Slabs 1s. 11\(\frac{3}{2}\)d., flowers 2s. 0\(\frac{1}{2}\)d., and \(\frac{1}{2}\)-oz. tablets 2s. 6\(\frac{1}{4}\)d. per lb. On the spot, slabs are quoted at 2s. 2\(\frac{1}{2}\)d., flowers at 2s. 4d., and \(\frac{1}{2}\)-oz. tablets at 2s. 10d. Quite a good business has been done in flowers.

Cassia fistula.—Medium to bold sound Java pod can be had at 17s. 6d. per cwt., and to arrive 16s. e.i.f. is quoted.

CHAMOMILES are steady. Present prices are regarded as quite reasonable and are about 80s. per ewt. cheaper than in October last year. Good white Belgium offer at 150s.. bold eurrent 140s., small eurrent 135s., and ordinary brown 125s. per cwt.

CLOVES have been firm and dearer with spot sales of Zanzibar at 1s. $4\frac{1}{2}$ d. to 1s. 5d. per lb. October shipment has been sold at 1s. $1\frac{7}{8}$ d. to 1s. 2d. c.i.f., and October-December shipment at 1s. $1\frac{1}{2}$ d. c.i.f. Madagasear is quoted at 1s. $4\frac{1}{2}$ d. on the spot.

quoted at 1s, 4½d, on the spot,

The landings of Zanzibar in London during the week ended
October 11 amounted to nil and the deliveries to 50, leaving
a stock of 331, against 599 in 1929 and 4,097 in 1928. From
January 1 to October 11 the landings of Zanzibar have been
6,257, against 5,848 in 1929, and the deliveries have been 5,923,
against 7,636 in 1929. Of Madagascar the landings for the week
ending October 11 were 312 and the deliveries 57. leaving a
stock of 1,332, aainst 29 in 1929 and 1,602 in 1928; the landings
of Madagascar this year to date have been 5,236, against 848,
and the deliveries 3,917, against 3,364.

COCOA BUTTER is quoted at from $11\frac{1}{2}d$. to 1s, per lb. for prime English, 1s, $0\frac{1}{2}d$. for C.F.R., and 1s. $0\frac{1}{2}d$. for Van Houten's "A" in not less than one-ton lots.

COCONUT (DESICCATED) is steady, with very little business passing. Fine, medium and coanse is quoted at 23s. per ewt. or the spot. For shipment (in minimum lots of 100 cases) the price quoted is 21s. 9d. to 22s. e.i.f. for October-December shipment.

Damiana Leaves offer at from 83d. to 9d. on the spot.

Dragon's broop.—The landings in London during September were three cases and the deliveries four, leaving a stock of 189 against 118 last year; the landings to date (September 30) have been 130 against 52, and the deliveries 78 against 91 last year.

ELM BARK is in better supply: loose slabs offer at 10d. to 11d., and grinding quality at 6½d. on the spot.

ERGOT remains firm, sound Russian offering at from 10½d. to 11d. per lb., and for old crop Spanish on the spot 2s. 3d. is wanted, while new crop is offered at 2s. 6d. per lb. e.i.f. to arrive.

Galls.—Chinese are quiet, plum-shaped offering to arrive for October-December shipment at 52s, e.i.f. and ordinary shape at 53s, e.i.f. Blue Persian are offered on the spot at 65s, green at 57s, 6d., and white at 47s, 6d., all nominal.

GINGER.—West African is quiet at 40s. per cwt. on the spot.

Gum acacia remains steady, natural Kordofan offering for October-November shipment at 49s. per ewt. e.i.f. and at 51s. e.i.f. for cleaned. New crop is fully steady, and December-January shipment has been sold at 47s. 6d. for natural and at 49s. 6d. for cleaned, e.i.f. U.K. and/or Continent. Spot price of Kordofan cleaned is unchanged at 60s., and for natural sorts 57s. is wanted. Talha is quoted at 36s. on the spot and at 27s. c.i.f.

Henna.—The average annual henna crop of Egypt is estimated at approximately 1,000 metric tons, of which 700 to 750 tens are exported, mainly to France and the United States. Although France appears to be the largest consumer of Egyptian henna, reports in the local trade indicate that a considerable portion of the quantity sent to France is re-exported to the United States. Henna is customarily packed in sacks containing between 50 and 60

kiles. Sales are always made under the following stipulation: "The licnna to be of a fair average quality and colour of the scason." It is also always agreed that the heima may contain 5 per cent, foreign matter. The product is exported either in leaf or powder. Prices of powdered henna run about 10 per cent. higher than those of leaf. Advance crop reports are to the effect that the quality this year is poor. The export season commences in October.

HYDRASTIS has a firmer undertone for shipment at 6s. 9d. per 4b. c.i.f., the spot value being about 7s. 6d.

IPECACUANHA.—In view of the Brazilian situation the market is firm, and 12s. 6d. per lb. has been frequently paid this week for Matto Grosso.

The landings in London during September were 7 cwt. all descriptions and the deliveries 33 cwt.

JUNIPER BERRIES.—Owing to a crop shortage in Italy, from whence the bulk of our supplies are derived, values have advanced from 4s. to 5s. per cwt., and sellers ask from 20s. to 22s. per cwt. c.i.f.; old crop on the spot can be had at 24s.

Kola has become scarce and dearer on the spot, the recent wharf fire having destroyed a quantity. West Indian is now worth $3\frac{1}{2}$ d. to $3\frac{3}{2}$ d., and West African quarters $2\frac{1}{2}$ d. per lb.

Menthol.—As is usual at this period of the year just before the advent of the new crop, prices are being depressed at the source for buying purposes, and quotations for November-December or January-March 1931 shipment have been received at from 12s. $7\frac{1}{2}$ d. to 12s. 9d. c.i.f. Spot values are fully steady at from 14s. $7\frac{1}{2}$ d. to 14s. 9d. for K/S.

MERCURY is unchanged and the demand chiefly confined to small lots. This week, however, there has been one or two inquiries for good-sized parcels. Controlled prices on the spot remain at £21 l8s, 9d, to £22 per bottle net, and the f.o.b, quotation for shipment is £21 l5s, net. Small outside parcels continue to be reported on offer and there is an ample stock of controlled metal available. The outlook seems none too clear, since there has been a considerable increase in the North American output. There seems to be a feeling amongst consumers that in the long run a lower price might be established if consumption is to be encouraged. However, so far, there is no indication of any fresh move on the part of the Combine.

Nux vomica has met with a fair amount of business of late at firmer prices, but this week values are, if anything, slightly easier. Madras is offered at 12s. per cwt. c.i.f., and Cochin at 12s. c.i.f.

Orange PEEL.—The usual so-called Maltese thin cut strip has slightly appreciated in value at from 7d, to 9d, per lb. as to quality.

Pepper is easier. Lampong is $7\frac{1}{2}d$, per lb. on the spot. To arrive, sales include August-October shipment at $6\frac{3}{4}d$, to $6\frac{5}{8}d$, to $7\frac{1}{2}d$. October-December at $6\frac{1}{2}d$, to $6\frac{5}{8}d$, to $7\frac{1}{2}d$. Tellicherry is 85s. c.i.f. for November-December shipment, and Alleppy 82s. c.i.f. for November-December. White Muntok is 1s. $1\frac{3}{4}d$, spot. To arrive, August-October shipment has been sold at $9\frac{7}{8}d$, to $9\frac{1}{2}d$, to $10\frac{7}{8}d$, and October-December at $9\frac{5}{8}d$, to $9\frac{3}{4}d$, to $10\frac{1}{2}d$.

PIMENTO is quiet and easier at 7½d. per lb. on the spot, and sales for shipment include September-November at 52s. per cwt. c.i.f.

PODOPHYLLUM ROOT.—P. Pellatum is offered at from 48s. to 50s, per cwt. on c.i.f. terms, and Indian is about 50s, on the spot.

RUBBER is without material alteration, and spot has fluctuated between 3_6^2 d, and 4d, per lb. The market generally is dull, and although at one time there seemed a possibility of an improvement, the result of the American questionnaire has again proved somewhat depressing. According to cables just received, the American consumption during the month of September totalled 24,800 tons, against 30,575 tons during August. Arrivals last week totalled 2,158 tons, whilst deliveries were 1,457 tons, showing a further increase of 701 tons in the stock. The London stock now stands at 32,245 tons, against 44,349 tons at the corresponding period last year. The Liverpool stock now stands at 37,224 tons, an increase of 846 tons on the week. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and October, 3_6^2 d.; November-December, 4d.; January-March, 4_{10}^{+} d.; April-June, 4_{10}^{+} d. per lb.

Sarsaparilla.—The landings in London during September amounted to 125 cwt. and the deliveries to 67 cwt.

SEEDS.—Anise.—Spanish is 52s. 6d., Bulgarian 40s., and Russian 31s. per cwt. on the spot. Fennel.—Bulgarian on the spot is 40s. per cwt. Canary is quiet and unchanged. Mazagan on the spot is 52s. 6d., and for shipment 24s. 9d. c.i.f. is quoted. Morocco on the spot is 25s., and for prompt

shipment 21s. per cwt. c.i.f. Turkish (2 per cent.) for shipment is offered at 19s. 6d. c.i.f., while on the spot there are sellers at 20s. 6d. MILLET.—Morocco on the spot is inclined to be a little easier, sellers now offering at 8s, 3d. Cumin.—Malta on spot is worth 62s. 6d., and Morocco is selling at 55s. spot. Fenugreek.—Old crop on spot is offered at 20s. New crop of very poor quality is neglected at 17s. 6d. spot. Coriander.—Old crop is worth 9s. 9d. and new crop 9s. 6d. No business is passing. Caraway.—Dutch on spot is firm at 32s, 6d. New crop is now offered at 31s. 6d. ex store. Mustard.—English is 25s. to 32s. per cwt. according to quality. Dill (11 per cent.) on spot is quiet at 22s. per cwt. Decorticated Cardamom seed is offered at from 3s. 6d. to 3s. 9d. per lb. for Ccylon and Bombay respectively. Slightly wormy and green Alleppy pod can be had at 2s. 6d. for old crop and at 2s. 8d. for new crop.

Senega.—There are still no direct offers, but from second hands 3s, c.i.f. is quoted. Spot is quoted firm at from 2s. 11d; to 3s, per lb, and upward.

SHELLAC is easier, usual standard TN orange quality offering at 82s. 6d. per cwt.; fine orange is 107s, to 200s., pure button 115s., and AC cakey 100s. per cwt. To arrive, sales of TN for October-November and November-December shipment have been made at 69s. to 71s. to 70s. c.i.f. Sales for delivery include October at 77s., December at 75s. to 76s. to 74s., and March at 76s. to 78s. to 75s.

SQUILL.—Good white is offered at 20s. per cwt. to arrive.

Wax (VEGETABLE).—Carnauba has fluctuated somewhat, and owing to the Brazilian banks being closed, business has been difficult. On the spot, fatty grey is offered at 84s. and October-November shipment at 77s. c.i.f.; chalky grey is 79s. spot and 74s. c.i.f. Primera is 122s. 6d. spot and 110s. c.i.f., while Mediana is 117s. 6d. spot, and shipment price is nominal at 102s, c.i.f.

Essential Oils

There has been no improvement in prices, buying being on a hand-to-mouth scale. Uncertainty is still prominent in the minds of most buyers, and we cannot look for improvement in the normal course of business unless there is a more general trade demand. Many think that it will be necessary to get back to a pre-war range of prices.

The imports of natural essential oils (other than turpentine) into the U.K. during September and the nine months ended September 30 were as follows:—

		1928	1929	1930
September imports	. lb.	304,160	253,548	284,313
	value	£90,403	£80,9 4 9	£69,203
JanSept. imports	. lb.	3,246,545	2,916,796	2,744,932
	value	£897,676	£1,043,664	£776,035
September re-exports	lb.	35,393	53,626	50,932
	value	£18,599	£25,586	£15,867
JanSept. re-exports	lb.	599,563	635,702	543,554
1 1	value	£222.112	£280.733	£206.192

Anise (STAR).—"Red Ship" brand and B.P. The forward position for arrival towards the end of the year is easier, October-November shipment being quoted at: leads in cases, 3s. 1½d, per lb.; tins in cases at 3s.; drums, at 2s. 11d., all c.i.f. Leads in cases on the spot are quoted at 4s. 7½d., and tins in cases at 4s. 6d.; spot prices are steady, but without much inquiry.

CLOVE.—The price of the fruit has further advanced and English B.P. oil is now quoted at from 7s. 3d. to 8s. per lb.

EUCALYPTUS continues in good demand; further depreciation in the Spanish exchange has enabled shippers to slightly modify prices, values being from 1s. 3½d. to 1s. 5d., according to percentage of cineol. Australian is unchanged at from 1s. 5d. to 1s. 7d. per lb.

Gernium.—A report covering 1928 production, sent to the Department of Commerce by the U.S. consul at Algiers. stated that the decrease in the acreage of geranium in 1929 was due to the low prices for the oil. The area cultivated amounted to about 1,500 acres less than in 1928. Hence the production was reduced, but unfavourable weather conditions, such as the frosts in April and hail in September, also influenced the crops, and in 1929 the production was 83,388 lb. compared with 132,475 lb. in 1928, or a decrease of 43,087 lb. The spring crop this year was not exceptional. There were large returns on the new plantations, but the older plantations yielded practically nothing. Nevertheless, production of geranium oil as large as that for last year is looked for.

GINGERGRASS is quiet and unchanged, spot offering at 7s. per 4b. and shipment at 6s. 6d. c.i.f.

LEMON.—Prices remain on the parity of last week and there is no inclination to buy old crop at present. The price of the new crop does not appear to be fixed, yet to

come below present level means low prices to be paid for lemons, which the growers are not at present inclined to take.

LIME.—There are no forward offers. The spot price of West Indian distilled is very firm at from 32s, to 32s, per lb. We notice the arrival of three drums and seven cases from B.W.I.

PALMAROSA is quiet, with little business passing. Spot is offered at 8s. 9d., and c.i.f. to arrive at 7s. 9d. c.i.f.

PEPPERMINT.—In an endeavour to influence the price to be paid to the growers of the new crop Japanese peppermint, very low prices have been cabled from Japan for November-December and January-March (1931) shipments; for both positions K/S is offered at 4s. and five brands at 3s. $10\frac{1}{2}$ d. c.i.f. We do not hear of any business resulting, but in one direction on this side an offer was made to reduce these low prices by 1d. per 1b. for a round number of cases. Spot prices are steady at 4s. 9d. for K/S and 4s. $7\frac{1}{2}$ d. for five brands. American peppermint is a little unsteady: tins quoted at 9s. 6d. on the spot, and to come forward 8s. 9d. for drums and 9s. c.i.f. for tins, both c.i.f. is mentioned; no business is reported.

The exports from the United States for July 1939 amounted to

The exports from the United States for July 1930 amounted to 16,856 bb., valued at \$47,066. They were principally absorbed as follows:—France, 1,000 lb.; Germany, 3,394 lb.; United Kingdom, 8,630 lb.; Canada, 563 lb.; China, 1,900 lb.; Argentina, 297 lb., and various smaller amounts.

SASSAFRAS.—Natural American is offering at 4s. 6d, per lb. The following arrivals have taken place from the countries indicated during the period October 1 to 7 (inclusive): Cassia (Hong Kong) 10 cs.; cinnamon (Cey.) 1 dm.; citronella (Java) 4 cs.; clove (Germ.) 3 cs.; lavender (Fr.) 2 cs.; lemon (U.S.A.) 142 cs., (Italy) 5 cs. 6x½ cs.; lime (B.W.I.) 23 cs.; mawah (Kenya) 7 dms.; orange (B.W.I.) 10 cs.; orange, bitter (It.) 2 cs.; orris (Fr.) 1 pkg.; palmarosa (Brit. India) 4 pots; peppermint (Fr.) 3 cs., (U.S.) 15 cs.; safrol (Japan) 2 dms.; sage (Spain) 1 dm.; sandalwood (Germ.) 2 cs.; spike lavender (Sp.) 2 cs.; thyme (Sp.) 20 cs.; wormseed (U.S.A.) 1 dm.

Pharmaceutical Chemicals, etc.

WHILE 2 number of products in this section are easy there is again very little actual change in prices to record. Tartaric acid is slow of sale and irregular; aspirin is steadier; cream of tartar is fairly steady; bromides are unchanged, with no development to report on the projected formation of a control. Milk sugar is being cut somewhat unnecessarily. Phenazone is a little steadier. An international convention has been formed in strychnine and salts.

ACETANILIDE (B.P.) continues to be quoted on spot at 1s. 4\frac{3}{4}d. to 1s. 6d. per lb., as to quantity, for crystals and powder; business is poor.

ASPIRIN.—The cheap offers cutting controlled prices are not so much in evidence and the market is steadier, with a fair seasonal demand: home trade, 2s. 9d. to 2s. 11d. per. lb. as to quantity; export to Colonies and British Possesions, ten cwt., 2s. 8d. up to 2s. 9\frac{1}{4}d. per lb. for small lots; export to other destinations, \frac{1}{4}d. to \frac{3}{4}d. per lb. more; home and Continental prices are level.

Barbitone continues to be offered on spot at 7s. to 7s. 4d. per lb., with business dull, while Continental prices are well over these figures.

BENZALDEHYDE is unchanged on a slow market: quantities of f.f.c., in carboys, about 2s. per lb. ex store.

Bromides.—There is nothing fresh to report here; the spot position is unchanged as regards quotations, while the demand is limited. The efforts to control bromides have not yet materialised: ammonium, 1s. 8½d. to 1s. 9d.; potassium, B.P. crystals, 1s. 4½d.; granular, 1s. 4¾d, to 1s. 5d.; sodium, B.P., 1s. 7d. to 1s. 8d. per lb. for good-sized quantities; slightly higher prices for small parcels.

CALCIUM LACTATE is about steady and business is reported as fair: quantities at 1s. 12d. up to 1s. 3d. per lb. for small lots.

CHLORAL HYDRATE is steady, with the business going to the home makers, whose prices are firm at 2s. 11½d. per lb. for duty-paid crystals, in boxes, and 3s. 0½d. in jars; smaller lots up to 3s. 1½d. per lb.; foreign on spot, 3s. 3d. per lb.

CITRIC ACID (B.P. crystals).—Very little interest is shown, with spot holders of foreign asking 1s, 5\frac{3}{4}d. to 1s. 6d. per 1b., less 5 per cent., for fair-sized quantities. English is offering at 1s. 5\frac{3}{4}d. per 1b., less 5 per cent.

CREAM OF TARTAR has been in moderate call, with foreign on spot well up to 88s. per cwt., less 2½ per cent. While

there is no indication of an advance in values here, there is nothing to suggest any material reduction. English makers quote 89s. per cwt., less 2½ per cent.

CREOSOTE (B.P.) continues to be quoted at 1s. 8d. to 1s. 9d. per lb. as to quantity, with the market slack.

CREOSOTE CARBONATEE is unchanged, with dealers offering spot at 5s, 9d, to 6s, per lb, as to quantity.

EPHEDRINE AND SALTS.—The pure alkaloid is quoted at from 13s. 9d t.o 14s. 6d.; ephedrine hydrochloride and sulphate at from 10s. 9d, to 11s. 6d. per oz.

GUAIACOL CARBONATE remains quiet, with spot prices at about 4s. 4d. to 4s. 8d. per lb. as to quantity.

Hexamine.—The recent price-cutting is not so much in evidence and prices are steadier at 1s. 104d. to 1s. 112d. per lb. as to quantity.

Hydroquinone remains subdued but steady at 3s. π_4^4 d. to 4s. 5d. per lb. as to quantity.

LACTIC ACID (B.P.) has been quieter and unchanged at ls. 11d. to 2s. 1d. per lb. as to quantity and packing.

METHYL SALICYLATE, for which a very fair call has been received, is steady from all sources at 1s. 3d. to 1s. 5d. per lb. as to quantity.

METHYL SULPHONAL remains dull, with dealers' prices on spot at about 12s. 7d. to 13s. 10d. per lb. as to quantity; market is easy.

 $\rm Milk$ sugar seems to be competitive, the quoted prices of 45s. to 46s. per cwt. being shaded for large-sized orders.

PARAFORMALDEHYDE is holding steady, with 100 per cent. powder at 1s. 6½d. to 1s. 7d. per lb. as to quantity; business is fair.

Phenacetin.—Cheap offers continue to discount the controlled prices of 3s. 8d. to 3s. 10½d. per lb., as to quantity, for crystals, with powder 1½d. per lb. more.

PHENAZONE is also being cut, but not to the extent of phenacetin: controlled prices are unchanged at 6s. 11d. to 7s. 3gd. per lb. as to quantity.

PHENOLPHTHALEIN.—Business is of small account, but prices are steady at 5s. 11d. to 6s. $1\frac{1}{2}d$. per lb. as to quantity.

RESORCIN continues fairly steady on spot at 2s. 11d. to 3s. 2d. per lb. as to quantity; business has been sluggish.

SALICYLIC ACID (B.P.) is well held at home makers' prices of 1s, 5d, for ton lots up to 1s, 8d, per lb, for small parcels,

STRYCHNINE AND SALTS.—An international convention between the Continental and British makers has been formed, whereby it is understood that competition from the former source on this market has been eliminated and prices of all makers are now alike. The previous schedule of makers' prices had been ineffective for some time owing to Continental competition, which led to the breaking away of an English maker, and prices were distinctly unremunerative. The agreement now reached evidently restores the old level of prices, which for the pure alkaloidal cryst. is 2s. 4d. per oz., and minimum lots of 1,000 oz. 2s.; hydrochloride (list price) is 2s., and minimum lots of 1,000 oz. 1s. 8½d.; sulphate (list price), 1s. 11d., and minimum lots of 1,000 oz. 1s. 8½d.) Owing to the rise in nux vomica it is said that theso prices leave a very narrow margin of profit and that an actual advance in prices is warranted.

SULPHONAL is dull: dealers offer spot at about 10s. 1d. to 11s. 2d. per lb. as to quantity; market is easy.

TANNIC ACID (B.P. leviss) is well held on spot at from 2s. 8d. per lb. for good quantities.

TARTARIC ACID (B.P. crystals).—With business reported as being of no consequence, the market value is largely nominal, in the region of 11d. per lb., less 5 per cent. for foreign. English makers quote 1s. per lb., less 5 per cent.

THYMOL is seemingly steady, with synthetic fine white quoted on spot at 7s. 3d. to 7s. 6d. per lb. as to quantity.

Vanillin meets with occasional small business: makers' price for guaranteed 100 per cent, ex clove oil is steady at 14s. per lb, in cwt. lots; ex guaiacol, 12s. 3d. per lb, in cwt. lots.

Industrial Chemicals, etc.

London, October 15.

CORNISH arsenic is steady as quoted; chlorates are much easier on a dull market; lead products are again at lower rates, under the International Convention. Business generally is by no means satisfactory, being limited in size and keenly competed for.

ACETIC ACID is unchanged on a slow market: 80 per cent. technical, £36 5s.; 80 per cent. pure, £37 5s. per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £58,

in glass demijohns; glacial, in barrels, £47 per ton, carriage paid in U.K.

ACETONE is steady and business is fairly good: B.G.S., £71 10s. to £80 per ton, in drums, carriage paid in U.K.

Arsenic.—The better tone recorded last week is maintained, with Cornish white powdered holding steady at £16 17s. 6d. per ton f.o.r. mines; there is a fair demand in small lots, with supplies on the small side.

COPPER SULPHATE.—The tendency is still downward and the export demand is slow, the position having been affected by the continuous weakness in metal to new low records. British Associated makers' terms are about £21 10s. f.q.b. for casks, less 5 per cent.

FORMALDEHYDE is unchanged on a keenly competitive market, with 40 per cent. by volume offering at about £31 per ton, in casks, ex store; less for large quantities.

ISOPROPYL ALCOHOL has been slower of sale of late, but the market is steady: good quality, 10s. 6d. to 11s. 6d. per gallon, in drums, carriage paid.

gallon, in drums, carriage paid.

LEAD PRODUCTS.—A further reduction in Convention prices for red lead and dry and ground in oil white lead was recorded on Monday, October 13: English red lead, 5-10 cwt., £35 10s.: 10-20 cwt., £31 5s.; 1-2 tons, £31; 2-5 tons, £30 10s.; 5-20 tons, £30; 20-100 tons, £29 10s.; over 200 tons, £29 per ton, less 2½ per cent., carriage paid; Continental, £1 per ton cheaper. White lead, dry:less than five tons, £40; 5-15 tons, £35; 15-25 tons, £34 10s.; 25-50 tons, £34; 50-200 tons, £33 10s.; 200-500 tons, £35 s.; over 500 tons, £33 per ton; ground in oil, less than 10 cwt., £48: 10-20 cwt., £47 10s.; 1-2 tons, £46 10s.; 2-5 tons, £45; 5-15 tons, £42; 15-25 tons, £40 10s.; 25-50 tons, £40: 50-100 tons, £39 10s.; 100-150 tons, £39; 150-200 tons, £38 10s.; over 200 tons, £38 per ton; all carriage paid, less 5 per cent.; English and Continental at same figures.

Oxalic acid has been very quiet of late but unchanged, with quantities at £31 10s. per ton ex wharf; spot lots, 32s, per cwt, ex store.

POTASH CAUSTIC is unchanged at Convention rates; ness moderate: 88 to 92 per cent. solid, £29 10s. to £34 10s. per ton, in drums, ex store: 30s. per ton less c.i.f.

POTASSIUM CARBONATE is moving in fair quantities on a steady market: 90 to 92 per cent., £23 10s.; 96 to 98 per cent., £25 10s. per ton, in casks, ex store; less for contrates.

Potassium chlorate is again weaker, with large quantities offering at £24 15s. to £25 per ton ex wharf; spot lots, from 3d, per lb, ex store.

POTASSIUM PERMANGANATE is steady, with quantities of commercial quality offered at about 43d. to 5d. per lb.

SODIUM AGETATE is easy on a dull market in the region of £19 per ton, in casks, ex store.

SODIUM CHLORATE shows a further reduction, with quantities down to £22 10s. to £23 per ton ex wharf; spot lots, about 3d. per lb. ex store.

SODIUM PRUSSIATE is steady but business is slow: quantities of yellow, £63 10s. to £65 10s.; single casks, 7d.; small lots, 71d. per lb. ex store.

SULPHUR.—There is a fair demand for American crude at £5 12s. 6d. to £5 17s. 6d., and Sicilian flowers are £11 5s., refined ground £1, and roll £8 15s. per ton, all c.i.f.

Coil-tar products, etc.—Business generally has been limited in volume and the tone throughout is quiet and none too steady. Naphthalene and betanaphthol are easier, Carbolic acid crystals and cresylie acid are unchanged. ANILINE OIL and ANILINE SALT are both unchanged. Beta-NAPHTHOL is easier on a dull market at about 8d. per lb. NAPHTHOL is easier on a dull market at about 8d. per lb., carriage paid. Carbolic acid is quiet and unchanged, small contracts being arranged at 7½d. per lb. with larger quantities 7d. per lb. Cresyllc acid.—Pale 97 to 99 per cent, is Is. 10d. per gallon to 2s. per gallon; refined, 2s. 5d. to 2s. 7d. per gallon; dark 95 per cent., 1s. 6d. per gallon, all naked at works. Creosote oil is unchanged, with the shipment quiet at 4½d. to 4½d. per gallon f.o.b. in bulk quantities; home trade is in the region of 4d. to 4½d. per gallon at works. Naphthalene is quiet and easier, with flakes and balls quoted at £13 10s. to £13 12s. 6d. per ton ex wharf. Methyl alcohol is unchanged and in fair demand: ton lots, about £42, in drums, ex store; lower prices for large quantities. Pyridine continues to be slow prices for large quantities. PYRIDINE continues to be slow of sale and unchanged at from 3s, 6d, to 4s, per gallon f.olb. Toluol is quiet and unchanged: commercial 90's, 1s. 10d.; pure, about 2s. 2d. per gallon ex works. XYLOL continues in quiet demand, with commercial 1s. 10d. and pure about 2s; 1d. per gallon ex works. pure about 2s; 1d. per gallon ex works. PITCH is unchanged at the nominal figure of 47s. 6d. per ton f.o.b. East Coast, with the market flat and little inquiry for next season.

Fixed Oils, etc.

GENERAL depression continues to be reported in all directions of this market and further reductions in prices for a number of this market and further reductions in prices for a number of products are indicated. Palm oils are steady. ACID OILS.—Some further reductions in values are recorded; market is quiet: coconut and/or palm kernel, 24s. 6d.; groundnut, 21s.; soya, 17s. 9d. spot. Castor.—Values for all grades are easier on a slow market: pharmaceutical, 42s. 6d.; first pressings, 38s. 6d.; second pressings, 35s. 6d. per cwt. on the spot in barrels in not less than one-ton lots. Coconut has remained quiet throughout: deodorised, spot, 37s.; Ceylon, 24s. 9d. c.i.f. Cotton.—Values for all grades 37s.; Ceylon, 24s. 9d. c.i.f. Cotton.—Values for all grades are easier on a dull market: deodorised, 33s.; common are easier on a dull market: deodorised, 33s.; common edible, 31s.; soapmaking, 27s.; crude, 26s. 3d. spot. Ground. Termains quiet: deodorised. spot, 36s.; crude Oriental. 30s 6d. c.i.f. Palm Kernel.—Values are unchanged on a slow market: deodorised, 36s.; crude, 27s. spot. Palm.—On balance, prices for all grades are about unchanged and the market is fairly steady, although business is quiet: Lagos, 21s. 6d.; softs, 21s. 9d; mediums, 21s.; hards, 21s. 3d.; bieached, 24s. spot. Rape is dull but fairly steady; refined, 36s.; crude, 34s. 6d. spot. Sova is dull and irregular: deodorised, 33s. 6d.; crude, 24s. 6d. spot. Linsed (raw, naked) is slightly easier, with the market quiet and irregular, tending easier: on spot, 26s. 6d.; ouiet and irregular, tending easier: on spot, 26s. 6d.; October. 24s.; November-December, 23s. 6d.; January-April, 23s. 4½d.; May-August, 23s. 1½d. Boiled oil on spot, 31s. 3d. Turpentine.—The market, after steadying somewhat at last week's close, has been inclined to ease again size the expense this week is the party of the problem. since the opening this week, in line with American advices, but the trade demand has not been brisk. There has been some falling off in American receipts and a slight reduction in stocks. Prices in London closed easy at 34s, for spot, 34s, 3d, for November-December, and 36s, for January-April. Last week's deliveries were 2.035 barrels, making a total since January 1 of 78.640 barrels, which compares with 78,772 barrels for the same period last year. Stocks were returned at 37.861 barrels, as against 21.435 barrels a year before Including the quantities affeat the London visible. before. Including the quantities affoat, the London visible supply made up at 42,361 barrels. This compares with 31,713 barrels a year ago.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Benzol shows a further slight reduction, while solvent naphthas have moved up once more. Lubricating oils are dull and easy as quoted. Other products are about unchanged. BENZOL.—A further slight reduction in prices is recorded and the market is now steady: standard motor 90's, country, 1s. 4d. to 1s. 4½d.; London, 1s. 4½d. to 1s. 5d. per gallon, ex works, in tank wagons. Fuel ones continue unchanged with the market slow: 950 gravity, £3 5s.; 390 gravity, £3 17s. 6d. per ton ex tank. Paraffin oils are unchanged: American standard white 11d.; water white 1s. 0½d new gallon, baryels free slow: 950 gravity, £3 bs.; 890 gravity, £5 1'fs. bd. per ton ex tank. Paraffin oils are unchanged: American standard white, 11½d.: water-white. 1s. 0½d, per gallon, barrels free, ex wharf. Paraffin wax and scale are in slow demand, with the market unsteady: wax, 1¾d. to 4¾d. per jb. according to melting point. in bags: scale is offered for shipment at about £12 5s. per ton c.i.f. U.K. White oils are unchanged, with the demand slow: special No. 1, £24 5s.; No. 1, £23 5s.; No. 3 half-white, £20; No. 4 half-white, £18 per ton, drums and barrels free, ex wharf. Solvent Nafhthas are quoted by makers at slightly higher rates and the market is steady: 90 to 160, 1s. 2½d. to 1s. 3d.; heavy 90 to 190, 1s. 0½d. to 1s. 1d. per gallon, naked at works. Pletroleum belles are quiet and unchanged: white to snow-PLTROLEUM JELLIES are quiet and unchanged: white to snow-PITHOLEUM JELLIES are quiet and unchanged: white to snow-white, £36 10s. to £46 10s.: amber and yellow, £18 5s. to £22: dark stiff green, £10 15s. per ton. barrels free, ex wharf. Lubricating oils are easy, with the market unsteady and demand slow: spot, pales, £9 12s. 6d. to £21; reds, £11 to £21; dark cylinders, £11 5s. to £25: filtered cylinders, £19 2s. 6d. to £29 uer ton, less 2½ per cent. Soluble oils and cutting compounds are unchanged at about £20 to £28 per ton net. No. 1 Russian oil continues at £14 7s. 6d. per ton less 2½ per cent. harrels free ex wharf ton, less 22 per cent., barrels free, ex wharf.

German Synthetic Camphor

German Synthetic Camphor

Three German firms are producing synthetic camphor from American turpentine oil as chief raw material with the concern of Schering-Kahtbaum A.G., Berlin N39, dominant, followed by I.G. Farbenindustrie A.G., Frankfurt-on-the-Main (otherwise known as the German Dye Trust), and Bochringer and Sochne, of Mannheim-Waldhof. There are no production statistics available, but it is estimated that these concerns turn out from 6,000 to 7,000 metric tons per year, of which approximately one-half, 3,049 tons in the year 1929 was exported. It is believed that Schering-Kahlbaum A.G. produces one-half. Of the remainder, three-fifths are produced by the Hersthofen plant of the I.G. Farbenindustrie A.G., and two-fifths by Bochringer & Sochne at Mannheim-Waldhof. The production process used for manufacturing synthetic camphor is the so-called Stephan process, German Patent No. 153924.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Health Insurance Matters

SIR,—According to the address delivered by Mrs. Irvine, published in your issue of October 11 (p. 463), it would appear that the chemist of to-day is basking in the sunlight of a prosperity that can only be equalled by being in heaven itself. Chemists are exhorted to count their blessings (about all they have to count), and, instead of bewailing their lot to get busy with a loud speaker and sing hymns in praise of panel work. Not that the writer is one of the discontented and ungrateful tribe of benefit receivers—far from it. When under the pseudonym of "Perplexed" he sought the verdict of the craft in your columns some six years ap the opinions expressed were carefully weighed, and the conclusion arrived at that N.H.I. was not worth doing, for the following reasons—but—before stating them he is pleased to say that there is at least one point in which he is in agreement with Mrs. Irvine, in that more than half of the amount received is profit (but do not forget it is gross profit). From the report of the London Pharmaceutical Committee for six months ended June 1930, we find that the average dispensing fee is 4.35d. per prescription. In 1925 it was shown that it cost at least 1.95d. to serve each customer in a shop; at the moment this figure is probably below the present cost—then remembering that each panel patient wants serving twice, we establish the fact that the net remuneration is 0.45d. (If we accept the figures of the North London Pharmaceutical Association, which suggest that any medicine dispensed costs in labour 1.7d. per minute, the remuneration then becomes a *minus* quantity). If we translate this 0.45d. into number of scripts per hour on the basis of a sixty-hour week, and presume that no dispenser is wicked enough to avail himself of stock fixtures, we will allow eight prescriptions per hour, which at the end of the week yields the magnificent return of 18s. Not much Mammon to worship there! Again, the writer agrees with Mrs. Irvine that patients are actually brought into the chemist's shop and up to his counter—there the agreement stops it does not make them buy anything. Mrs. Irvine remarks on "the unity and friendship which pervade the pharmaceutical world," and states that "pharmacists meet as business partners and loyal friends." What a travesty of fact—if pharmacists were really united, how much longer would they put up with the existing state of affairs? We are then told that the Act has increased the number of pharmacies and decreased the number of drug stores. It would be interesting if some figures could be adduced showing how many pharmacists have been established to collar the N.H.I. in a particular district and how many are paying proposi-tions. So far as drug stores are concerned they may have decreased, but in name only; what has actually happened is that nowadays people open a general shop and sell everything they possibly can. The whole trend of proposed legislation and concessions shows that this tending to allow anybody and everybody to sell anything and everything is going to be encouraged (e.g., tinctures concession and the Departmental Report on Poisons). In conclusion, the chemist has the privilege of being the dispenser of the State's medicine for which privilege he will shortly be relieved of the key of the poison cupboard, and while he is busy wailing over his lost privileges and dispensing medicine by numbers, the general stores on the next corner is doing the profitable business to which he is too busy to attend.

Yours truly, STILL PERPLEXED (11/9).

SIR,—There is a continued growth in the number of reports that a scheme for a national medical service will be brought forward before long, and this was referred to at the conference of the Scottish Association of Insurance Committees (C. & D., October 4, p. 420). There is at present considerable diversity in the statements made regarding this scheme, and probably many of them are only rumours; first one hears that all the dependents of the present insured persons will be brought in, then that everybody up to a certain income, about double the present wage figure under the Act, will come under it, and if so, it would bring in nearly the total bulk of the population. But so far there has been no statement on the point which interests us most, namely, the position of the panel chemist under such a scheme. Will he still be the dispenser to the nation, or will the State provide for the supply of medicines as well as for the medical treatment? In this respect it is interesting to refer to the reports of the voluntary contract system, "run by doctors for doctors," in which the individual who wishes to contribute pays threepence a week to the doctor, and in case of illness receives all medical treatment (except where special hospital treatment is required) and all needful In this scheme there is no place for the medicine. chemist at all, neither is he considered as a necessary adjunct to its working. It is further interesting to note that threepence a week is 13s. a year, or approximately the same amount as that now appropriated for the panel services, including the doctors' capitation fee and the amount supposed to be available for the drug fund. Is there any co-ordination in these figures, or is this the amount which is considered sufficient to provide the necessary advice and medicine? If so, and the pharmacist were asked to undertake any further service under an enlarged scheme, would the amount now paid to the drug fund be the figure still adhered to? These points would have to be seriously considered by pharmacists before undertaking a contract on similar lines to the one we have now, as the present terms are admitted to be unsatisfactory to us, and an increase in the number of insured persons which would include all the customers of the ordinary chemist's business could not fail to have a depreciating effect on his legitimate counter trade, and he would be thrown more than ever into the position of having to develop side lines in order to keep himself solvent. One can well imagine a state of affairs in which all the inhabitants of a working-class town would come under the insurance, and would require therefore only panel medicine. How many chemists would care to run a business for nothing but Insurance dispensing at present tariff rates? In ordinary dispensing practice the first consideration was always to interpret the prescription as far as possible to carry out the intentions of the doctor for the benefit of the patient, but now when we are presented with an Insurance script, which has not been written so carefully as it might be, always having the fear of a test in front of us, we are compelled to dispense as written so long as there is no obvious mistake which might be dangerous, and then we are obliged to return it to the prescriber. But there are many things ordered on Insurance scripts, which are passed and paid for by the committees, which one cannot see being ordered for the voluntary subscriber who pays threepence a week, especially proprietary articles, and presumably there is no question about the solvency of the voluntary scheme. Would the same procedure be adopted under a national service? adopted unc.
Yours faithfully,
NATIONALITE (11/9).

Drugs from Automatic Machine

SIR,—After an absence of some years from England I was prepared to find things in a bad state. They are, but the thing that has shocked me most is, on taking a wash and brush up in a restaurant to find a machine selling is. tubes of ammoniated quinine, cascara, aspirin and other tablets. And people tell me we have no redress. Why is it?

Yours faithfully,

DISGUSTED (12/9).

Dispensing Notes and Difficulties

Quinine and Potassium Iodide

SIR.—Your comments on the enclosed prescription will oblige. I consider quinine and potassium iodide very incompatible, and I suggested to the doctor to use tincture of cinchona. To this he agreed.

 Quin. hydrochlor.
 ...
 gr. ij.

 Pot. iodid.
 ...
 gr. v.

 Syr. aurant.
 ...
 5ss.

 Aq.
 ...
 ...
 ad
 3j.

Yours faithfully,

PROGRESS (3/6).

[It is advisable to add one drachm of mucilage of tragacanth to each ounce of mixture, and dissolve the salts in separate portions of the water before mixing. Thus:—Twenty grains of quin. hydrochl., five ounces of water and ten drachms mucil. tragacanth. dissolved together. Pour this into the bottle containing the five drachms syr. aurant., fifty grains potass. iodid. and the remainder of the water. Cinchona alkaloids in tinct. cinchonæ form nearly insoluble compounds with the general alkaloidal reagents. The above direction will give a more presentable mixture than a cinchona one of equal alkaloidal strength, which is also held up preferably with muc. tragacanth. Quinine salts and potass. iodid. in the presence of an acid will precipitate the iodo-compound (iodo-hydriodide), a reddish brown amorphous powder, by the action of the iodine liberated from the potassium iodide.]

Legal Queries

 $D.\ W.\ W.\ (4/10)$.—The inclusion of the words "anti-nheumatic" in the title and "for the relief of rheumatism, gout, sciatica and similar complaints" in the label would render the article liable to duty.

Ex (31/7) asks whether either a man or his wife who are living together, and are aged respectively eighty-two and eighty, is entitled to an old age pension, their combined income being £140 a year. [It would seem that each is entitled to a pension at the rate of 6s. a week.]

G. H. (8/8).—Since you have apparently not served a regular indentured apprenticeship to a chemist and druggist you are not entitled to sell "known, admitted and approved" remedies unstamped. The fact that you have been employed for many years in chemists' shops has no bearing on the case, since you cannot produce your indentures and discharge.

Subscriber (16/9) asks where he can obtain a copy of the registration certificate which he received when his property was valued under the Finance Act, 1909-10. What is the amount of the stamp duty upon the sale of a property for, say, £1,800? [If "Subscriber" can trace the official who acted as district valuer at the time the valuation was made he might be able to get the required information from him; but the value placed upon the property at that time would be no criterion of its value to-day. The stamp duty would be at the rate of £1 per cent. of the sale price.]

S. L. (23/9).—The course you purpose to follow to obtain allowance of the duty on unused stamps is not the right one. You should apply by letter to the Commissioners of Customs and Excise, Custom House, London, to be allowed the value of the stamps, stating the grounds on which you make the claim. They will then instruct their local officer as to what he is to do to investigate the claim and see the stamps removed. You will then be required to make a declaration to the effect that the stamps have not been used for any other purpose, that none of them have been fraudulently rebought or returned after sale, and that no money has been paid or given for them save that which was first paid. The effect of this is that the repayment will only be made to you if you are the first purchaser of the stamps.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

B. P. (17/6).—FILLING OF AMYL NITRITE AMPOULES.— The ampoules used should be of yellow, green or darkblue glass of volume ½ or 1 c.c., and drawn out to a point at the two extremities. By means of a flame close one extremity at about 1-2 cm. from the globular portion of the ampoule. Filling may be performed by one of two methods, either by pressure apparatus or by vacuum. Put some liquid in the container. Insert needle into open end of ampoule. Press bulb a few times and the air pressure will force out the liquid. Filling should be done in a cool dark place. This is probably the most satisfactory way and is fairly rapid. Advantages are non-exposure of liquid to air or light Fit up a pressure apparatus with a long iridio-platinum hypodermic needle attached to a glass delivery tube. The needle should be thin enough to pass into the constricted portion of ampoule. When filling by vacuum the apparatus consists of a bell jar placed on a rubber mat which is fixed to a metal plate. The bell jar is fitted with a bung carrying three tubes, liquid intake, air inlet, and tube to vacuum pump. Ampoules closed at one end are put in a holder—a disc of card or metal perforated—and through each hole is put the open end of the ampoule. Ampoules should be of equal length. When finished the ampoule may be enclosed in a parent with in order to restort may be enclosed in a paper tube in order to protect the points, but usually they are wrapped in fabric or cotton wool tied at each end, and this avoids pouring the liquid on a handkerchief. Your specific query as to whether a mask should be worn depends entirely on the circumstances. If the operation is conducted in a draught chamber in which a suction fan is working this precaution would seem hardly necessary, though if large numbers were to be filled it would be advisable. Of course, the skill of the operator in filling and sealing is an important factor. It is recommended that workers be furnished with a mask if considerable quantities of amyl nitrite are handled, or if the periods are lengthy, in order that the least possible amount of substance be inhaled, and to use the greatest possible precaution in closing the ampoules. Closing ampoules must be done by exposing the constricted portion to a flame which is like a thin dart, obtained by passing the gas through a capillary tube, and holding the ampoule with drawn out ends, and not entirely full, wrapped in a piece of wet cloth. In order to ascertain that the ampoules are perfectly sealed they should be kept for a few minutes in a current of steam. Filling operations should be done where there are no naked

L. B. B. (21/8).—Paint remover.—A colourless liquid containing acetone and benzol, and probably nothing else. Specific gravity 0.866. The proportions suggested are 20 per cent. of the former and 80 per cent. of the latter.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," October 15, 1880

Price of Cinchona Bark

The last bark sales exhibited a notable relaxation of the eagerness of buyers, which has so often been the characteristic of this market. It would seem that the American demand for quinine has considerably slackened of late, large holders there finding themselves for the moment overstocked, the autumn having passed without the occurrence of any serious epidemic. Makers are consequently more ready to take home orders, and a fall of 8d. per oz. in the alkaloid has resulted. [The price of British-made quinine sulphate in the same issue was 12s. per oz.]



[Commenced C. & D., July 5, 1924]

Sulphocyanide, Mercuric, Sale.—The practical importance of the entry "Mercuric sulphocyanide" in Part II of the Poisons Schedule consists in the possibility of a demand over the counter for this salt for the purpose of preparing a species of fireworks. In 1906 and 1907 fines were inflicted in two police-court cases in respect of irregular sales of this salt or preparations of it.

Sulphur.—This element (the brimstone of the alchemists), who believed it to be the principle of inflammability, has been known from very early times. It occurs free in volcanic areas, where it is formed probably by the interaction of sulphur dioxide and sulphuretted hydrogen; this is known as the solfataric type of sulphur, and is found in Japan and Italy. The gypsum type of sulphur is formed probably from calcium sulphate by the reducing action of shale and bituminous matter, followed by the action of atmospheric moisture and earther dioxide. These deposits are found moisture and carbon dioxide. These deposits are found in Sicily and in Louisiana, which supply the bulk of the world's requirements. Free sulphur is also found in Egypt, New Zealand and India. Combined sulphur is widely distributed in nature. It occurs in many plants, particularly those with a pungent smell—onion, garlic, mustard, etc., in hair and albumen; and a fair number of metallic ores are sulphides or sulphates, e.g., galena, PbS; copper pyrites, Cu₂S, Fe₂S₃; zinc blende, ZnS; and heavy spar, BaSO₄. Sulphide ores are treated for sulphur in Australia. Yet another source of sulphur is the calcium sulphide remaining in the liviviating tanks the calcium sulphide remaining in the lixiviating tanks in the manufacture of sodium carbonate (q.v.) by the Leblanc process. In the Chance and Claus recovery process, the tank waste is dried, powdered, and suspended in water. Carbon dioxide is forced in and sulphuretted hydrogen evolved. The latter is mixed with oxygen, and burnt in kilns, so that only the hydrogen is burned, while the sulphur is deposited. Until the end of the 19th century over 90 per cent. of the world's sulphur supply came from Sicily; since then Louisiana sulphur has become the more important. The process formerly adopted in Sicily was excessively wasteful. The ore, containing an average of 20 to 25 per cent. of sulphur, was heated in large circular heaps. Combustion was started by wood fuel, after which heat was supplied mainly by the burning sulphur itself. This method was not only wasteful, more than half the sulphur being lost, but it also caused extensive damage to surrounding vegetation through atmospheric pollution. The process is now obsolete, and the element is extracted by heating the ore in kilns in which combustion of the sulphur can be controlled. The crude product contains 90 to 98 per cent. of sulphur, and is purified by sublimation. The Louisiana sulphur deposits were discovered in 1865. They occur at a depth of about 450 feet, and cannot be mined in the adjuster of the controlled. in the ordinary way owing to the nature of the over-lying soil. This consists largely of water-bearing sands saturated with sulphur dioxide and sulphursaturated with sulptur dioxide and sulptur-etted hydrogen, which gases were poisonous to the miners. These difficulties were successfully overcome in 1903 by the Frasch process, in which superheated water, at about 180°, is pumped into the deposit and the molten sulptur is raised to the surface by means of compressed air. The product obtained is of a high degree of purity, over 99.9 per cent. Nearly thirty different allotropic modifications of sulptur have been reported; these include crystallinc, amorphous and plastic forms. Flowers of sulphur consists mainly of rhombic or a-sulphur, insoluble in carbon disulphide, but containing an amorphous form which is soluble in that

liquid. By melting a-sulphur, allowing a crust to form on top of the molten liquid, piercing the crust and pouring away the remainder of the liquid, monoclinic, prismatic or β -sulphur is obtained; it slowly changes into the α form at ordinary temperatures, but is still above An unstable pearly or nacreous sulphur, S.iii. is obtained by heating sulphur with benzene in a sealed tube and immersing the cool end of the tube in a freezing mixture; the shape of the crystals separating varies with the temperature at which they form. When molten sulphur, at about 35°, is poured into water, an indiarubber-like mass of plastic sulphur is produced; this is really a supercooled liquid, and it slowly crystallises to a. If the sulphur be melted at a low temperature and poured into water, a-sulphur is formed. Colloidal sulphur can be obtained from a solution of a thiosulphate by adding acid, by interaction of sulphur dioxide and sulphuretted hydrogen, and in other ways. Milk of sulphur is a white or greyish form deposited on acidifying a solution of calcium polysulphide; it is the precipitated sulphur of the B.P. 1914. As ordinarily found, sulphur is a pale yellow brittle solid, tasteless and odourless. When in fine powder it becomes oxidised in a damp atmosphere, and will then give an acid reaction when shaken with water. It dissolves slightly in alcohol, when shareh with water. It dissolves signify in alcohol, and also in other organic liquids, but is insoluble in water. On heating, it melts at about 115°; the melting point is variable owing to the presence of varying proportions of α and β forms. At 50° sulphur is nearly colourless; at 100° it is intense yellow. At the melting point it forms a mobile amber coloured liquid, which durkens and thiskons as the temperature rises attaining darkens and thickens as the temperature riscs, attaining its maximum viscosity at 180°. Above this temperature it remains dark in colour, but becomes mobile again, finally boiling at 444.5, giving a reddish vapour. If the vapour be heated it becomes straw coloured at about 650°. These colour changes are believed to be assoordinary temperatures, α and β sulphur arc mainly S_a . When heated in air, sulphur inflames at 363°, burning with a blue flame to sulphur dioxide. Sulphur has a wide variety of uses. It is used in grape-producing countries as a fungicide to prevent the growth of moulds on vine leaves, and it is similarly used in the cultivation of hops. It is used in the manufacture of calcium bisulphite, which is used as preservative for beer and cider and also in making "bisulphite pulp" in the paper industry. Wood soaked in molten sulphur is very hard, durable and resistant, and is being employed where these qualities are required. Small quantities of sulphur are used in the manufacture of amber-coloured bottles, and in making cements (see Spence metal). Sulphur is used medicinally mainly externally as a mild parasiticide in skin diseases. Internally, it is given as an apericnt, but it is partly excreted by the lungs and skin so that breath and perspiration acquire an unpleasant odour. In conjunction with lead subacetate, sulphur is used in many so-called hair restorers, their action being due to the formation of black sulphide of lead. For external use, milk of sulphyr is really professed to the milk of sulphur is usually preferred to the flowers, on account of the absence of any gritty particles. Colloidal sulphur has been recommended for external medication as more active than other forms of the element, and is used internally in diseases of rheumatic origin.

Sulphur, Commerce.—Practically the whole of the world's output of sulphur is produced in the United States, Italy and Sicily, Japan, Spain and Chile, of which the U.S.A. produces by far the largest quantity, about 2,360,000 tons per annum. The next in importance is Italy, including Sicily, with some 320,000 tons, Spain 40,000 tons, and Chile 10,000 tons, bringing the total production to approximately 2,750,000 to 2,800,000 tons per annum. Sulphur is at present imported into and consumed in eighteen of the countries included in the British Empire and into some twenty-six of the countries outside of the British Empire—a total of forty-four countries distributed over the globe. Statistics show that during the last decade the consumption in the British Empire has increased from some 205,600 tons to 477,000 tons, or over 100 per cent., while in the twenty-six foreign countries mentioned, and during the same period it has increased from some 1,500,000 to over 2,250,000 tons, an increase of 80 per cent. It will be seen from the above

The C.&D. Commercial Compendium

that whereas sulphur is consumed in forty-four countries, distributed all over the globe, it is only produced in appreciable quantities, at any rate, in five, and of these the United States produces more than the other four put together. Taking the U.S.A. as an example, about 36 per cent. is consumed by the heavy chemical industries, about 24 per cent, in the manufacture of fertilisers and insecticides, about 17 per cent, in the manufacture of pulp and paper, four per cent. in explosives, three per cent. in dyes and coal-tar products, and a like amount for rubber goods, the balance of some 16 per cent. being distributed over many of the lighter chemicals. The prices of crude block sulphur, i.e., the sulphur as extracted in the first instance from the ore, have been stable now for some years and have not declined with the other commodity prices, the principal reason being that the supply is not excessively above the demand. It is estimated that world consumption is now proceeding at the rate of fully 2,750,000 tons per annum, which would indicate an increase of over 1,000,000 tons over the last decade, and it is noteworthy that the price of crude block sulphur has remained stationary for several years past at £5 12s. 6d. to £5 17s. 6d. c.i.f. Since the inception of the American-Italo Combine in 1923 there has been a regulation of the output and of world prices, this also relating to refined sulphur, terms for which have been adjusted more or less in buyers' favour in order to stimulate uses and their extent. Owing to her huge resources America has played the main part in the regulation of production, in line with her working agreement with Italy. This explains the fact that the American output in 1924 was drastically curtailed to about 1,220,000 tons, against the high record already reached of well over 2,000,000 tons in 1923. Within the last six years, however, there has been, as already indicated, a renewed rapid increase to about 2,700,000 tons with he how facilitated by payed leaven. 2,360,000 tons, which has been facilitated by much larger domestic requirements. The American output just before the war was comparatively small, but since the war the exploitation of deposits was carried on on a large scale and American exports began to assume heavy dimensions, rising to well upward of 600,000 tons already in 1925 and to about 765,000 tons for 1929, besides a considerable quantity of refined. American returns for a number of years were as follows :-

Year		Year Production Export		Exports	U.S.A. total deliveries	Stocks end of year	
			Tons	Tons	Tons	Tons.	
1923			2,036,097	474,475	1,618,841	3,172,201	
1924			1,220,561	482,114	1,533,658	2,700,000	
1925			1,409,240	629,401	1,857,970	2,250,000	
1926			1,890,027	576,966	2,072.657	2,060,000	
1927			2,111,618	789,371	2,072,109	2,100,000	
1928			1,981,873	685,051	2.083,924	1,999,000	
1929			2,360,000	764,380	?	?	

The American output for 1929 by far eclipsed all previous high records and there has been a continued large surplus carried from year to year about representing annual domestic consumption. Details of U.K. imports of recent years are as follows:—

From	1924	1925	1926	1927	1928
Germany Netherlands Belgium France Italy United States Mexico	Tons 1,063 2,535 155 201 76,808 27,320	Tons 210 3,150 340 435 68,720 34,873	Tons 631 4,080 827 224 40,446 28,733	Tons 2,309 1,200 646 415 70,048 35,070 3,725	Tons. 3,191 4,692 814 104 37,340 46,850
Other foreign countries	781	389	346	143	51
Total from foreign countries	108,863	108,117	75,287	113,556	93,042
Total from British countries Total all sources Valued at £	10 108,873 482,877	1,428 109,545 473,554	75,287 342,781	11 113,567 532,280	93,042 477,495

Sulphoricinoleic Acid is prepared by sulphonating castor oil. (See Sodium Sulphoricinoleate.) It is used

as a solvent. Similar products are obtained by sulphonating other fatty oils.

Sulphurated Oil of Linseed is made by warming together one part of sulphur with six parts of linseed oil, and is sometimes known as balsam of sulphur.

Sulphur Dioxida, SO_2 , occurs in volcanic gases, where by reaction with sulphuretted hydrogen the "solfataric" type of sulphur deposit is formed. It is also found in solution in certain volcanic springs, and is a constituent of the atmosphere surrounding towns where it is formed by the combustion of sulphur compounds present in coal. It may be formed by heating sulphur in air, or by heating metallic sulphides, such as pyrites, CuFeS2; both these sources are utilised commercially for this gas in the manufacture of sulphuric acid by the chamber process. Sulphur dioxide is a colourless gas, more than twice as heavy as air, and possessing characteristic suffocating smells. It is very poisonous, and on this account it is sometimes used to fumigate dwelling-houses. It dissolves in water, giving an acid solution from which crystalline hydrates with various proportions of water have been obtained by cooling. The gas condenses to a colourless mobile liquid at ordinary temperatures under a pressure of 2½ atmospheres; the liquid boils at -10°, and solidifies at -73° . The liquid is a solvent for sulphur, iodine and many salts and resins; it does not react with iron if dry, and can be transported in iron cylinders. For laboratory and can be transported in iron cylinders. For laboratory purposes the liquefied gas is supplied in glass syphons holding about 500 litres. The liquid is largely used as a refrigerating agent. The gas is used in the manufacture of sulphuric acid (q. v.); in conjunction with calcium bisulphite it is used for the preparation of the bisulphite pulp of the paper-making and artificial silk industries. It is of the paper-making and artificial silk industries. It is extensively used as a bleaching agent for delicate materials which do not stand the action of chlorine, such as hair, straw, silk and wool, and also in sugar refining. Sulphur dioxide can be detected by its reducing action on lodic acid or its salts, iodine being liberated, so that starch-potassium iodate papers become blue when exposed to the gas. It is estimated with N/10 iodine. The aqueous solution contains sulphurous acid, $\rm H_2SO_3$, a dibasic acid which is only known in solution. The B.P. 1914 includes an acidum sulphurasum containing 5 per cent. by weight of SO_2 ; it is used as an antiseptic in parasitic skin diseases. Two series of salts of the acid are known, the normal and the acid sulphites; the former are odourless, the latter smell of sulphur dioxide.

Sulphuretted Hydrogen.-Hydrogen sulphide, H2S, occurs in natural gases and mineral waters. It is also produced during the putrefaction of organic substances containing sulphur, Sulphuretted hydrogen can be prepared by the action of sulphuric or hydrochloric acid on ferrous sulphide, and may be obtained pure either by heating antimony trisulphide with strong hydrochloric acid, or by the action of water on aluminium sulphide. It is a colourless gas which has an extremely offensive odour which, as commonly recognised, is due to impurities. It is inflammable, burning with a bluish flame, to form sulphur dioxide, sulphur being deposited if the supply of oxygen is insufficient for its complete combustion. The gas is poisonous, the best antidote being dilute chlorine. Sulphuretted hydrogen is soluble in water, three parts in one, the solution having an acid reaction to litmus; it is also soluble in alcohol. It is decomposed by oxidising agents, and by heat above 400°. Tin, lead, silver, etc., are rapidly tarnished when exposed to the gas owing to the formation of a film of the sulphide on the surface; for this reason articles of silver and white-lead paint are quickly blackened in industrial areas. Sulphuretted hydrogen is detected by means of lead acetate test papers. Its presence in drinking water can be detected by acidifying the sample with hydrochloric acid, and adding a solution of p-amino-dimethylaniline; if hydrogen sulphide be present methylene blue is formed. cipal value of the gas is in analytical work. It is used commercially to remove arsenic from sulphuric acid, and also to precipitate copper from waste solutions.

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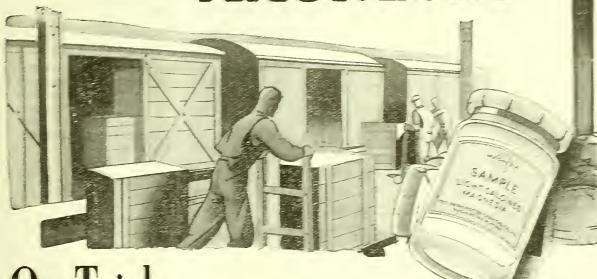
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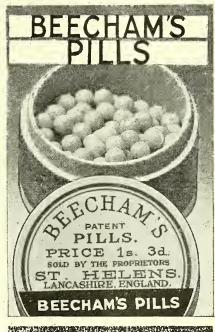
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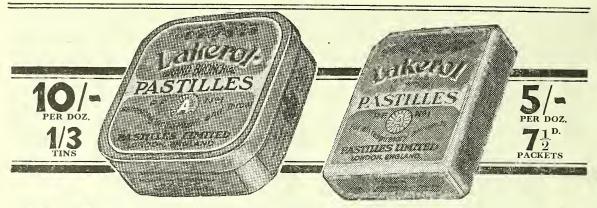
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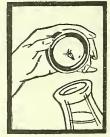
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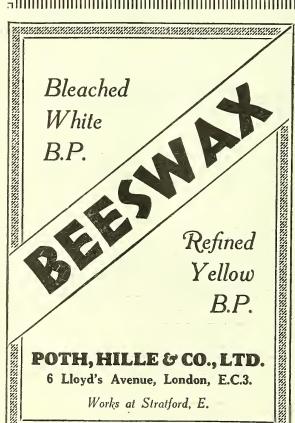
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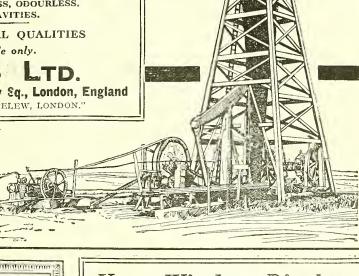
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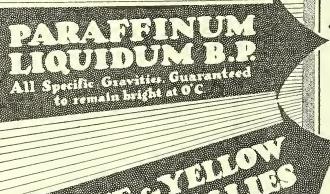


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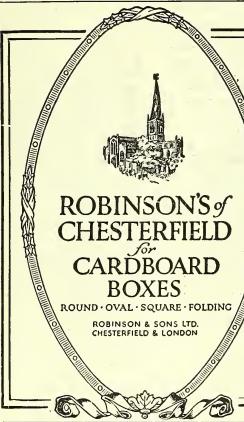
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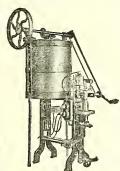


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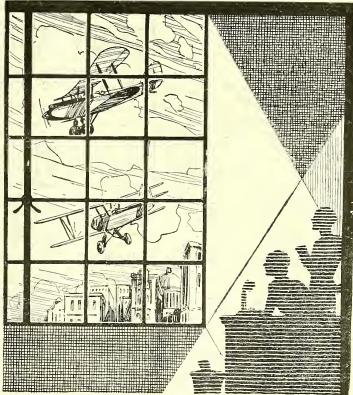
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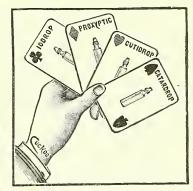
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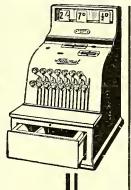
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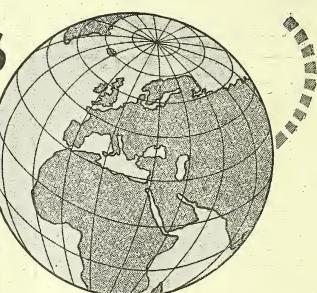
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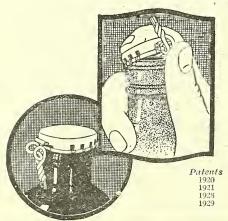


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LONDON, W.C.2

OCTOBER 18, 1930

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CLEVEDON (Som.).— Unqualified Assistant for Dispensing and occasional Counter work in good-class Dispensing business. Full particulars and photo if possible. J. H. Shepherd. Pbarmaceutical Chemist, Clevedon, Som.

LONDON. — Wanted, immediately, capable, unqualified Assistant for middle class trade; good Salesman and Prescriber most essential. Reply in first instance, stating age, references, and salary required, to 265/23, Office of this Paper.

LONDON, W.—Gentlemanly, qualified Assistant required for high-class business; age between 30 and 40. Full particulars of experience and salary required to 268/20, Office of this Paper.

MANCHESTER.—Qualified Branch Manager required at once for small middle-class business; good house attached; must have first-class references. State age, experience, salary required, and full particulars to II. Garbutt, M.P.S., 96 Princess Road, Moss Side, Manchester.

WEMBLEY.—Young lady for Clerical work and Counter; good knowledge of Toilets; able to do D. & P. on occasion. State age, experience, salary, etc. Applications not answered in four days declined. Apply 265/30, Office of this Paper.

WOKING.—Required, an Unqualified Assistant (male), chiefly for Dispensing. Apply A. Lloyd Davies, 2 High Street, Woking.

A PERMANENCY for an experienced qualified Assistant in a high-class pharmacy. Applicants please state age, height, salary required, when at liberty, previous experience, and include most recent photograph (which will be returned). J. A. Wright, 8 Lichfield Street, Wolverhampton.

A SSISTANT required; must be a quick and accurate Dispenser, a capable and courteous Salesman, not afraid of work, and accustomed to good-class pharmacy; only those with good experience and undeniable references need apply. P. Bolton, Chemist, 5 Sussex Place, South Kensington, S.W.7.

A SSISTANT, qualified, for immediate vacancy; personal application preferred; must have a sound all-round knowledge of the trade and good work. Fairfax, 116 Seymour Street, Euston, N.W.1.

JUNIOR Assistant wanted; age about 20; with London experience preferred. Apply in writing in first place, stating full particulars, to Harvey & Co. (Chemists), Ltd., 8 Onslow Place, South Kensington, S.W.7.

LADY, unqualified, for suburban business; capable all-round Assistant, good Dispenser and Counterhand; age, height, experience, reference and salary required; photo to be returned, to Dyson, 360 Upper Richmond Road, East Sheen, S.W.14.

LADY Assistant, unqualified, required at once; Counter, Dispensing and Window-dressing. Give full particulars, age, experience, and salary required. Beal, 446 Rochdale Road, Manchester.

MANAGER wanted for branch business; salary and commission; £4 10s. average guaranteed; small living accommodation, between Bristol and London. 266/38, Office of this Paper.

PHARMACIST and Optician (J.C.Q.O.) required for a goodclass husiness; ago 27-35; must be a good Salesman and Dispenser and an experience Refractionist. Apply, with full particulars of experience, age, salary, and photo if possible, 266/19. Office of this Paner.

QUALIFIED Manager required immediately for Eastern Counties; 30-35; well able take sole charge; sound Salesman, Window-dresser; experienced N.H.I.; preferably gentleman willing consider permanent association with proprietor. Full particulars, salary (confidentially) to 266/37, Office of this Paper.

QUALIFIED, all-round (male) wanted for small Shop in working class neighbourhood. State full particulars and salary required. Fookes, 34 Vicarage Lane, High Street South, East Ham, E.6.

QUALIFIED Assistant; lady or gentleman; permanency; South Coast. Usual particulars to 269/22, Office of this Paper.

UNQUALIFIED Assistant, lady (25-30); Dispensing, Counter, Windows. State experience and salary required. 366 Garratt Lane, S.W.18.

WANTED.—Experienced Dispenser, with knowledge of Bookkeeping, wanted as soon as possible. Apply, with testimonials, by writing to Dr. Harris, 96 Lower Addiscombe Road, Croydon.

WANTED, qualified Chemist to manage old-established business situated in principal thoroughfare in Lancashire town; owner wishes to retire, and would give manager option to purchase business; preference given to gentleman with money at disposal. 265/33, Office of this Paper.

WINDOW-DRESSER and Dispenser, age 20 to 25, wanted immediately; must have sound knowledge of up-to-date Window display; one with knowledge of Photography, including D. & P., preferred; good N.H.I. Dispensing experiences essential. Send age, experience, references, photograph (to be returned), salary required to L. H. Lester, 2 Market Place, Nuneaton.

WHOLESALE.

EXPERIENCED Working Foreman, to take charge of Pharmaceutical Drug and Chemical-filling Department, South London factory; permanent position. State salary required and full particulars to "D. C.," 93 Gordon House, 75-9 Farringdon Street, E.C.4.

FIRST-CLASS Male Sales Correspondent required by large Firm of Surgical Appliance Manufacturers in Manchester only those who have had actual experience in fitting trusses, abdominal supports, etc., together with experience in correspondence, need apply; must be able to commence at once, and must apply in own handwriting, giving full particulars of age, experience and salary required. 268/17, Office of this Paper.

LADY Pharmacist wanted, with Minor qualification or equivalent, as Typist-Stenographer in Technical Laboratory. 260/4, Office of this Paper.

DART-TIME Representative wanted to call upon Hospitals, Nursing Homes, etc., London, north of the Thames, and Home Counties; established house; excellent opportunity. 177/306, Office of this Paper.

PART or whole-time Representative required, Lancashire and Yorkshire, for Surgical Rubberware of all descriptions; commission 10 per cent. to 27½ per cent. 177/305, Office of this Paper.

POWDER PUFFS, ETC.—Mannfacturers require Agent or Traveller with live connection amongst Chemists, Hairdressers, etc.; every support given to a well-introduced person; exceptional prospects. Write Box A.1091, Rays, Cecil Court, W.C.2.

PROCRESSIVE Sundries House require the services of Representatives, calling on Retail Chemists, on straight commission basis. Please give fullest information of previous connections. 178/321, Office of this Paper.

REPRESENTATIVE required by London Firm of Manufacturing Chemists to cover Southern Midlands and Eastera Counties: car and good connection essential. Full particulars to Box H.92, Gordon House, 75/9 Farringdon Street, E.C.4.

PEPRESENTATIVES required to sell, on commission basis, highly attractive inexpensive range of Gift Sets of Perfumery and Toilet Preparations; it is desirable for applicants to have established connections with important buyers, including Stores, Hairdressers, etc.; territories vacant, London and Home Counties, Midlands and the North. Write, stating full details, to W. B. Cartwright, Ltd., Rawdon, near Leeds.

CALESMAN, not over 35 years of age, required by well-known Pharmaceutical House to call upon Chemists in N.W. London, Middlesex, Berks, Bucks and Oxon. Write, stating age, experience and salary required, Box 974A, Smith's. 3 Lincoln's Inn Fields, London, W.C.2.

TABLET Maker wanted; must have full knowledge of all processes, granulation, compression, coating, hypodermics, etc.; only fully experienced applicants considered. Write, stating age, experience, salary required, to 177/297, Office of this Paper.

WANTED. Representative, who can add to present connection, to Sell Surgical and Medical Goods to Doctors and Veterinary Surgeons; Eastern and Midland Counties or South Wales; adequate pay for good work, with prospects; furnish recent history. 177/324, Office of this Paper.

SUGAR COATER

Experienced man required immediately to fill vacancy caused by death. Applicants should have experience both of pearl and sugar coating. Good prospects of speedy advancement for thoroughly reliable man.

Apply stating age, experience, wages required and when disengaged to:

THE STANDARD TABLET CO. HOVE BRIGHTON

(COLONIAL, INDIAN AND FOREIGN.)

WEST AFRICA.—Required for West Africa, a qualified Chemist, who must also hold Optical Diploma; under 50 years of age and single preferred; passage paid; free furnished quariers; substantial salary for 18 months' agreement; if services satisfactory liberal leave on full pay with re-engagement at progressive increase. Apply, stating age and experience, with photograph if possible, to 177/507, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

A.A. -NEWCASTLE OR NEAR. - Qualified, engagement; any capacity; free one month. "Chemist," Morpeta Avenue, Harlon, South Shields.

A.A. -ASSISTANT; 23; Dispenser, Window-dresser; high-class experience; salary £3. "Chemicus," 35 Stock Orchard Crescent, Holloway, N.7.

-EXPERIENCED successful Manager, 45, finest refer-A. A. ences, desires temporary or permanent position, London: accustomed heavy Dispensing, Window-dressing. 268/40 Office of this Paper.

A. Young, qualified Chemist, splendid experience and testimonials, requires position as Dispenser, Pharmaccutist, etc.; business or institution. Apply 268/19, Office of

A -QUALIFIED, 24, tall, at present relief manager with large Midland Company, requires position; Midlands or South; available November 8; willing worker; will consider any genuine business proposition. Smith, 706 Coventry Road, Birmingham.

A-QUALIFIED; 21; sound experience in Dispensing and Photographic business; Counter, Windows, etc.; pernanency J. Benn, 5 Second Avenue, Blackpool.

A -QUALIFIED Chemist, 23 (Square trained), desires post as Assistant or Manager; excellent Counter and Dispensing; London area. P.C.B. 1/18, Office of this Paper.

A.—QUALIFIED; 27; Midlands preferred; managership in lent references; good all-round experience. "Chemist," 12 St. Mary's Road, Whitchurch, Cardiff.

A CAPABLE Junior (Part I); 20; tall; completed 5 years' sound apprenticeship; excellent Dispensing Counter and Window-dressing experience; disengaged. C. R. Jones, 98 Hartington Street, Barrow, Lancs.

A LOCUM; qualified; long experience in all branches; active; excellent references; terms moderate. "S. C. J.," 54 Priory Road, West Hampstead, N.W.6. 'Phone-: Maida Valc 8212.

QUALIFIED Chemist, experienced (London and West-End), desires position as Manager, Senior Assistant, or Locum; disengaged October 20; London only. 267/38, Office of this

A QUALIFIED Chemist, 25, with unlimited capabilities, desires position, Manager or Assistant, in London; expert Dispenser, Salesman, Window-dresser; used to management; 8 years' experience, South Coast, London, West-End. G. Roxburgh, 21 Howards Lane, Putney.

A LL-ROUND experience; age 44; unqualified; thoroughly accustomed to best West-End Dispensing; temporary of otherwise. Little, 9 Westbourne Street, Sloane Square, S.W.1. unqualified; thoroughly

A N experienced, unqualified Assistant seeks post in London or provinces; 58; reliable Dispenser, keen Salesman, Prescriber, Photography, very reliable: not afraid of work. 268/22, Office of this Paper.

A N all-round Assistant, 21, wants work urgently; not a quitter; anything good; anywhere. 28 Clegg Street, Brierfield, Lancs.

A S Assistant or Locum; experienced; abstainer; good references; disengaged. "II. G.," 142 Hill Lane. Southampton.

A SSISTANT; unqualified; permanency preferred; can manage Chemist's Retail or Drug Store; disengaged. "Statim," 72 Tremadoc Road, Clapham, S.W.4.

A SSISTANT and Dispenser, 36, thoroughly experienced Retail, injury prevents continual standing, requires Clerical or any sedentary work in Retail, Wholesale or Hospital. Toon, c/o Galloways, Chemists, Birmingham.

A SSISTANT, unqualified (referred Forensic Pharmacy)
requires post, preferably in Notts, Derby, Lines or South
Yorkshire districts; all branches. H. L. Wainman, Albert Street.

A SSISTANT; unqualified; single; general all-round experience; d'sengaged October 31; London only. Jones, 30 Clyde

A SSISTANT; unqualified; single; general alt-round experience, d'sengaged October 31; London only. Jones, 30 Clyde Road, Sutton, Surrey.

A SSISTANT (lady); 10 years' varied experience, Dispensing, Counter, Stock, Toilet, Prescribing; can take charge; excellent references; disengaged. 265/28, Office of this Paper.

A SSISTANT; unqualified; 20 years' London and country experience; small salary; trustworthy; reliable references. "Chemicus," 69 Upper Richmond Road, Putney.

A SSISTANT (referred Pharmacentical Chemistry) seeks situa-

A SSISTANT (referred Pharmaceutical Chemistry) seeks situa-tion; accurate Dispenser; excellent Salesman; unimpeach-able references. "K.," "Summerfield," West Park Road, Kew. able references.

A SSISTANT, age 21, experienced in Dispensing, Counter, Window-dressing and D. & P., desires post. Dickinson, 22 The Highlands, Edgware.

A SSISTANT or Locum; Counter, Dispensing, Photography; energetic; unqualified; good references. "K.," 62 Blenheim

Road, East Ham, E.6.

A SSISTANT; 20; tall; 5 years' experience, Counter, Windows, Photography; good references; disengaged. Miss F. Shilocok, 28 Triiby Road, Forest Hill.

A SSISTANT, Surgeons' Dispenser or Locum; Loudon of Provinces; highest references; unqualified. "C.," 43 Querumore Road, Harringay, N.4.

A SSISTANT, unqualified, 20, requires situation; Midlands preferred; Wholesale and Retail experience; competent Dispenser and keen Salesman. Brocklehurst, 51 Middleton Boulevard, Wollaton Park, Nottingham.

A SSISTANT (female), 62 years' experience, N.H.I. Dispensing, Counter trade, and Window-dressing, Hall Certificate, desires situation; East London or Eastern suburb. 267/40, Office of this Paper.

AT LIBERTY.—M.P.S.; experienced all round; good Dis-penser; accustomed to brisk work; middle-aged; Locum (permanency or part time London); excellent credentials. M.P.S.," 29 Kenninghall Road, Clapton, E.5.

PRISTOL OR DISTRICT.—Capable, unqualified Assistant, 31, 16 years' good-class experience in Dispensing, Surgical, Photographic, Toilet, keen Salesman, competent Window-dresser, efficient Prescriber, requires permanency; energetic; able to take charge; excellent references. Knott, 20 Langham Road, Brisiol. CHEMIST (Irish qualification) wants position; Dispensing and Retail; 12 years present post; moderate calary. 269/12, Office of this Paper.

DISENGAGED.—Pharmacist; experienced; whole or part time; Locum or permanency; moderate salary. "Pharmacist," 98 The Greve, Ealing, W.5.

DISENGAGED.—Locum or Assistant; good all-round West-End experience. Arthur, 62 Caldecot Road, Denmark Hill, London, S.E.5.

PAST HAM OR DISTRICT.—Capable, experienced Chemist seeks position as Manager; Photography. 268/2, Office of this Paper.

this Paper.

PXPERIENCED Chemist; London, South Coast; excellent 17 references; Photo, Dispensing, Window-dressing; disengaged. "Statim," 58 stockwell Park Crescent, S.W.

PXPERIENCED Manager; whole or part time, Locum; disengaged October 18; reg'stered R.P.U.; London preferred. Harris, 52 South Side, Clapham Common, S.W.4.

PXPERIENCED; qualified; Locum or Manager; age 45; height 6 ft.; good appearance and address. "M.P.S.," 65 Milton Road, Waterloo, Liverpool.

PXPERIENCED Assistant ceeks post; active, energetic worker; 7 years last berth; unqualified; disengaged. 268/15, Office of this Paper.

CENTLEMAN, unqualified, total abstainer, not afraid of

MENTLEMAN, unqualified, total abstainer, not afraid of work, desires employment with Doctor, Institution or Chemist; in or near Liverpool; excellent Dispensing and Clerical experience; terms negotiable; unimpeachable references. 265/21, Office of this Paper.

IF you require services of M.P.S., F.B.O.A., F.S.M.C. (on J.C.Q.O.), as Manager or Assistant, gentlemanly, tali, teetotal, energetic, age 38, 20 years' good all-round experience, all branches, free in few wecks, who seeks permanency, either London suburbs or S.E. Coast, please write "Photographic," 268/16, Office of this Paper.

JUNIOR, 23, disengaged, seeks situation; London or near; good all-round experience; interview; references. "X.."
44 Temple Road, Kew Gardeus.

JUNIOR Assistant requires position; Birmingham or near; good experience and references. "G. E. C. E.," 93 Soul Read, Birmingham.

J good experience and references. "G. E. C. E.," 93 Soul Road, Birmingham.

ADY. Dispenser (Hall), young, experienced, desires post; Doctor or Institution; Liverpool district preferred. Morrison, Rutland Avenue, Sefton Park.

ADY Assistant, disengaged (Hall Certificate), 7 years' excellent experience in Dispensing and Counter work, energetic, reliable, undeniable references, desires post; London or district preferred; interview. "O. K.," 18 Park Hill, Clapham, S.W.4.

ADY Dispenser (Hall) requires post with Doctor; Essex preferred. Davis, "The Laurels," Tower Avenue, Chelmsford.

ADY Assistant, disengaged, 13 years' experience, excellent Dispensing and all-round Counter experience (Hall Certificate), desires post; Chemist or Docter. 20 The Parade, Carshalton, Surrey.

ADY Dispenser desires post; Locum or otherwise; disengaged. 55 Broad Street, Point, Portsmouth.

OCUM (disengaged until Christmas); experienced and competent Manager; 56; qualified; abstainer; references. Prooks, 97 Bradshawgate, Leigh, Lancs.

J OCUM, Relief, Manager; "not registered"; over 20 years' sound experience, Dispensing, heavy Panel, Hospitals; City, West-End Stores and good Private; Counter, Stock, Salesman, Prescribing. "G.," 130 Scott-Ellis Gardens, N.W.8.

OCLUM, qualified, registered R.P.U., recommended, open for engagements; long or short periods. "L.," 119 Fairlands Avenue, Thornton Heath.

OCUM or Stockiaking; qualified; 37 years' first-class experience. Pharmacy and Photography, excellent references.

engagements; long or short periods. "L.," 119 Familian Avenue, Thornton Heath.

OCUM or Stocktaking; qualified; 37 years' first-class experience, Pharmacy and Photography; excellent references. Findlay, 62 Lillie Road, Fulham.

OCUM, M.P.S.; elderly; good references; moderate terms; period or permanent; disengaged October 24. Wellburn, c/o Mrs. Brock, 10 Leyland Road, Lee. S.E.12.

OCUM or emergency relief; any period; highest references; reasonable terms; town or country; disengaged. "Locum," 56 Ruddoe Road, Balham, S.W.12.

I OCUM or permanency; not registered: middle age; experienced Dispenser; moderate salary; or manage Drug Stores. "T.," 50 Gladstone Street, Battersea, S.W.

OCUM or temporaly; qualified; 32; as Manager or Assistant; disengaged October 20. "Chemist," 50 Grose Lane, Camberwel, S.E.5.

MANAGER, qualified, desires position with view to succession;

tant; disengaged October 20. "Chemist," 50 Grove Lane, Camberwel, S.E.5.

MANAGER, qualified, desires position with view to succession; middle-aged; good references. 267/11, Office of this Paper.

MANAGER or Assistant; qualified; good experience; teetotaller; healthy; town or country; now at liberty; moderate salary. Apply 267/21, Office of this Paper.

MANCHESTER DISTRICT.—Qualified; lady; 24; disengaged; Manageress or Assistant; Dispensing, Counter, Photographic, Window-dressing experience; conscientious; excellent references. 267/25, Office of this Paper.

M.P.S. seeks situation, London or anywhere; thoroughly experienced every branch, including Optics; conversant French, German; now free; will bring own optical instruments. 61 Victoria Park Road, London, E.9.

M.P.S., 24, tall, recently qualified, seeks further high-termination of the property of

PART-TIME Student, free evenings and Saturday, requires work in London. T. Irons, 83 Manor Drive, Wembley

DERMANENCY.—Senior, unqualified Assistant; 29 years' experience, all branches; active; tall; undeniable references; accustomed management; abstainer; thoroughly competent; dieengaged. What offers? L. Holroyd, The Pharmacy, Langold,

accustomed management; abstanner; thoroughly competent; disengaged. What offers? L. Holroyd, The Pharmacy, Langold, near Worksop.

PHARMACIST (lady, 24), qualified July, desires permanency; trained high-class establishment; tall; excellent references; interview Birmingham, Liverpool districts preferred. 265/19, Office of this Paper.

PHARMACIST, 25, seeks situation; Locum or permanency; excellent Counter and Dispensing experience; disengaged. "Chemist," 82 Clarence Road, Stony Stratford, Bucks.

PHARMACIST (23) desires change; West-End or City; excellent experience and references. 268/27, Office of this Paper.

Paper.

PRESTON OR LIVERPOOL DISTRICT.—Young lady, 21, desires post as Assistant; Counter and Window-dressing; excellent references. 266/23, Office of this Paper.

PROGRESSIVE situation required by capable Pharmacist; yeung; excellent references. Green, Hinetock Road, Plumstead. 'Phone: Woelwich 1303.

QUALIFIED, 28, married, seeks progressive situation; 13 years' sound experience; excellent references; London; burb or near preferred. 264/35, Office of this Paper.

QUALIFIED Manager, good all-round experience, London and South Coast, desires permanency in dry, bracing town; exceptional Prescribing experience; married; excellent references; living accommodation if possible; free after customary notice.

265/35, Office of this Paper.

QUALIFIED; middle-age; active; experienced; part-time, occasional or emergency relief; N. or N.W. London; moderate terms; would appreciate interview. "B.," 114 High Road, East Finchley N.2.

QUALIFIED lady; 23; good all-round experience, Dispensing and Counter; disengaged; Manchester district preferred. M. Kerfoot, 141 Bennett Street, Newton, Hyde.
QUALIFIED, 23, tall, seeks permanency, high-class pharmacy, London or Bournemouth and districts; well experienced in Dispensing, Counter and Photography. V. Benjafield, "The Lodge," Gloucester Road, Bournemouth.
QUALIFIED young Assistant requires Locum or permanency; Nottingham or East Midlands. W. Ayers, 68 Wilford Road, Nottingham. "Phone 84411.
QUALIFIED; all-round London experience; quick N.H.I. Dispenser; abstainer; excellent references; London district. "Oxalic," 61 Stroud Green Road, N.4.
QUALIFIED; 40; married, immediate engagement; excellent experience; London or near; highest references; reason business transfer. Apply "Pharmacist," 54 Bounces Road, Lower Edmonton, N.9.
QUALIFIED lady; 23; capable Saleswoman and Dispenser; disengaged; London only; interview; references. 267/12, Office of this Paper.
QUALIFIED, 62, married, as Manager or Assistant in Light Retail; London or country. Please address P.C.B. 1/16, Office of this Paper.
QUALIFIED lady (22) desires position; good experience; London or suburbs. "H. E. D.," 1 Hopefield Avenue, Proguires responsible position where abilities will be appreciated. P.C.B. 1/17, Office of this Paper.
QUALIFIED lady (22) desires position; good experience; London or suburbs. "H. E. D.," 1 Hopefield Avenue, Production or suburbs. "H. E. D.," 1 Hopefield Avenue, Production or suburbs. "H. E. D.," 1 Hopefield Avenue, Production or suburbs. "H. E. D.," 1 Hopefield Avenue, Production or suburbs. "H. E. D.," 2004. (Hons.), Pharmacist-Optician, F.B.O.A. (Hons.), Pharmacist-Optician, F.B.O.A. (Hons.), Pharmacist-Optician, F.B.O.A. (Hons.), Pharmacist-Optician, F.B.O.A. (Hons.), Pharmacist Manager; London, or within 50 miles; Vecen, methodical. competent, experienced Buyer; well versed in brisk modern pharmacy; sound references. "Ephredine," 58 Oakfield Read, London, N.4.
QUALIFIED, 23, desires situation in West-End or

iko a chance of Optical experience. Sharp, 137 High Street, Ponders End.

OUALIFIED, M.P.S., good references, 5 years' present post, desires post, Hospital, Doctor's or Chemist's Dispensing. Miss Steabben, Thornborough House, Clarendon Road, Watford. PELIABLE unqualified Assistant, 26, used to large Private and Panel Dispensing business; quick; accurate; Photographic (D.P.), etc.; high-class London and country experience: free immediately; excellent references; permanent or temporary. Hawkins, 4 Kimberley Road, Leytonstone, E.11.

PELIABLE unqualified Assistant, age 40, desires permanent situation; sound experience in all departments; undeniable references. "Worker," 267/6, Office of this Paper. CITUATION as Manager; qualified; good references; low salary; or Locum accepted. "W.," c/o Rudderham, 36-Victor Street, York.

STUDENT (Part II) requires evening position in London; Road, S.W.9.

STUDENT (Part II) requires evening position in London; excellent references; interview. Ridehalgh, 222 Clapham Road, S.W.9.

GUCCESSFUL business builder, elderly, active, seeks post as Manager or Assistant; long service references; moderate salary. 'Chemist," 18 Market Square, Bishops Stortford, Ilerts.

UNQUALIFIED, 24, with first-class West-End experience; temporary post, either part time or whole; good Dispenser and Counter. Roper, 13 Gauden Road, Clapham, S.W.

UNQUALIFIED Senior Assistant; age 29; smart appearance; well experienced in all branches of business at Harrogate, Folkestone, Cromer, Tunbridge Wells; excellent Dispenser, Counterman, etc.; free to commence duty when required; present post over 3 years, previous post 2 years; excellent references. Watson, 1 High Street, Tunbridge Wells.

UNQUALIFIED; 23; first-class Dispensing experience. City and West-End. C. Hunter, 7 Redburn Street, S.W.3.

UNQUALIFIED Assistant, 21, desires post in or near London; 4½ years' experience in all branches; tall; smart appearance. 269/21, Office of this Paper.

UNQUALIFIED Assistant desires permanency with high-class Pharmacist; town or country; Midlands preferred. Hobson, 31 Wagg Street, Congleton.

VORKSHIREMAN, unqualified, desires change; any capacity; excellent experience in Photography, Counter, Dispensing, etc.; present position (Senior) 3 years; 29; tall; hard worker; smart appearance; free now; well recommended. Neill, 12 Cumberland Walk, Tunbridge Wells. All offers appreciated.

WHOLESALE.

WHOLESALE.

A FIRST-CLASS record, proved ability, well known. Advertiser desires progressive change in administrative, propaganda or representative capacity. 265/220, Office of this Paper.

AN ESTABLISHED Representative, excellent record, long connection, desires change; known lines only. 265/22, Office of this Paper.

A SSISTANT, with 6 years' Retail experience, desires position as Representative in Ireland or England; excellent known; convincing manner; highest references. 265/26, Office of this Paper.

ALL PUBLIC PHARMACISTS

THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS (Incorporating the National Association of Chemists' Assistants)

BENEFITS: Trade Protection—Legal Aid—Unemployment Benefit—Free Use of Employment Bureau Write for particulars:—ARTHUR J. GILLIAN. Gen. Sec. 149 Newington Causeway, LONDON, S.E.1

A SSISTANT and Dispenser, 55, thoroughly experienced Retail, A injury prevents continual standing, requires Clerical or any sedentary work in Retail, Wholesale or Hospital, Toon, c'o Galloways, Chemists, Birmingham.

COMPETENT Clerk, age 38, seeks situation in Drug trade; 14 years' experience with Manchester firm of Wholesale Chemists. 269.5, Office of this Paper.

TYPERIENCED Bnyer and Indentor of Drugs. Chemicals. Surgical, Dental and Toilet Requisites seeks fresh position; aged 51, 18 years with old-established export merchants; knowledge of French; excellent references. Reply "L. F. S.," 25 Creighton Road, N.W.6.

TXPERIENCED Bayer (Pharmacist), Chemicals, Drugs, Drug-gists' Sundries and allied products; disengaged shortly; geod correspondent and therough knowledge home and export trade; would act as City Representative. P.C.B. 1 frade: would this Paper.

EXPERIENCED Representative requires progressive position well-known honse; Drngs, Toilet, Proprietary; excellent connection South and West England; own car. 268 4, Office of

EXPERIENCED Traveller, with extensive connection in London and suburbs, requires engagement as Representative calling upon Chemists, Stores, etc. P.C.B. 1/29, Office of this Papt:

GENTLEMAN, young, desires post in Wholesale; 7 years' experience in pharmacy, all branches; nuqua; fifed; London preferred. May, 76a Larden Road, Acton, W.5.
GORDON MORUM, Pharmacist, for 10 years a director of a well-known Liverpool firm of Wholesale Druggists, seeks an appointment either at home or ahroad. 178/326, Office

LADY, qualified, B.Sc., Ph.C. (referred Botany), young, keen, capable, desires appointment, Hospital, Laboratory, etc.; London or North preferred; highest recommendations; some experience. "Statim," 61 Elizabeth Street, Hightown, experience. Manchester.

QUALIFIED, excellent all-round Retail experience, London and South Coast, keen, first-class references, desires post as Representative with firm of repute; South Coast preferred; own car. 265 550. Office of this Paper.

PEPRESENTATIVE, young, wishes to hear from firm of repute who desires sound representation in West Country; own car. 265 16, Office of this Paper.

TABLETS, Pills, Capsules, Casted-work; thoronghly experienced; now at liberty; home or abroad. "Chemist," 85 Warwick Road. Batley, Yorks.

FOR SALE.

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